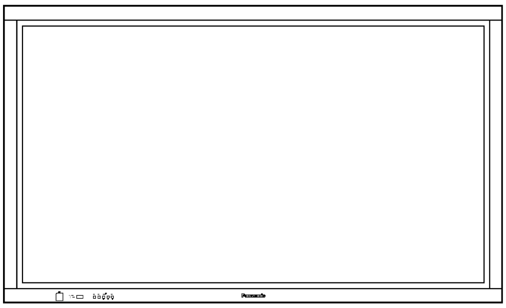
ORDER NO. ITD0509054CE
D10

High Definition Plasma Display

TH-65PHD8BK / TH-65PHD8EK / TH-65PHD8UK

GPH8D Chassis



SPECIFICATIONS

Specifications

ower Source (UK)	120 V AC, 50/60Hz	
ower Source (BK/EK)	220 - 240 V AC, 50/60 Hz	
ower Consumption (UK)		
Maximum	675 W	
Stand-by condition	Save OFF 0.7 W, Save ON 0.5 W	
Power off condition	0.2 W	
ower Consumption (BK/EK)		
Normal use	615 W	
Stand-by condition	Save off 0.9 W, Save on 0.7 W	
Power off condition	0.35 W	
asma Display panel	Drive method: AC type 65-inch, 16:9 aspect ratio	
Contrast Ratio	3000:1	
creen size	56.5” (1,434 mm) (W) × 31.7” (806 mm) (H) × 65” (1,645 mm) (diagonal)	
(No. of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	
perating condition		
Temperature	32 °F - 104 °F (0 °C - 40 °C)	
Humidity	20 % - 80 %	
plicable signals		
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
Scanning format	525 (480) / 60i*60p, 625 (575) / 50i*50p, 750 (720) / 60p*50p, 1125 (1080) / 60i*50i*24p*25p*3 24sF .... SMPTE274M, 1250 (1080) / 50i	
PC signals	VGA, SVGA, XGA, SXGA, UXGA ..... (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz	
onnection terminals		
AV	VIDEO IN / OUT (BNC)	1.0 Vp-p (75-ohm or high impedance)
	S VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
	AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT / RGB (UK)	Y / G (BNC)	1.0 Vp-p / composite (75-ohm) 0.7 Vp-p / non-composite (75-ohm)
	PB/B (BNC), PR/R (BNC)	0.7 Vp-p (75-ohm)
	AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
PC (UK)	(HIGH-DENSITY Mini-D-SUB 15PIN)	R,G,B / 0.7 Vp-p (75-ohm) HD, VD / 1.0 - 5.0 Vp-p (high impedance)
	Component	
	Y:	1.0 Vp-p (75-ohm : include sync)
	PB / CB:	0.7 Vp-p (75-ohm)
	PR / CR:	0.7 Vp-p (75-ohm)
	AUDIO IN (M3 JACK)	0.5 Vrms (high impedance)
PC (BK/EK)	(HIGH-DENSITY Mini-D-SUB 15PIN)	R,G,B / 0.7 Vp-p (75-ohm) HD, VD / 1.0 - 5.0 Vp-p (high impedance)
	AUDIO IN (M3 JACK)	0.5 Vrms (high impedance)
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE
SPEAKERS (8 Ω)	20 W [10 W + 10 W] (10 % THD)	
ccessories Supplied		
Remote Control Transmitter (UK)	EUR7636070R	
Remote Control Transmitter (BK/EK)	EUR7636090R	
Batteries (UK)	2 × AA Size	

Batteries (BK/EK)	2 × R6 Size
Fixing bands	(TMME203) × 2
mensions (W × H × D)	61.2” (1,554 mm) × 36.4” (925 mm) × 3.9” (99 mm) (exclusive of protruding portion)
ass (weight) (UK)	
main unit only	approx. 172.0 lbs
with speakers	approx. 181.7 lbs
ass (weight) (BK/EK)	
main unit only	approx. 78.0 kg net
with speakers	approx. 82.4 kg

otes:

esign and specifications are subject to change without notice. Mass and dimensions shown are approximate.

his equipment complies with the EMC standards listed below. EN55022, EN55024, EN61000-3-2, EN61000-3-3. (BK/EK)

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Panasonic®

1. Applicable signals

VIDEO input

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

Applicable input signals for Component / Mini D-sub 15P (Component) / RGB / Mini D-sub 15P (RGB) (* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component / Mini D-sub 15P (Component)	RGB / Mini D-sub 15P (RGB)
1	525 (480) / 60i	15.73	59.94	*	*
2	525 (480) / 60p	31.47	59.94	*	*1
3	625 (575) / 50i	15.63	50.00	*	*
4	625 (575) / 50p	31.25	50.00	*	*
5	750 (720) / 60p	45.00	60.00	*	*
6	750 (720) / 50p	37.50	50.00	*	*
7	1,125 (1,080) / 60i	33.75	60.00	*	*
8	1,125 (1,080) / 50i	28.13	50.00	*	*
9	1,125 (1,080) / 24p	27.00	24.00	*	*
10	1,125 (1,080) / 24sF	27.00	47.92	*	*
11	1,125 (1,080) / 25p	28.13	25.00	*	*
12	1,125 (1,080) / 30p	33.75	30.00	*	*
13	1,250 (1,080) / 50i	31.25	50.00	*	*
14	640 × 400 @70 Hz	31.46	70.07		*
15	640 × 480 @60 Hz	31.47	59.94		*2
16	640 × 480 @72 Hz	37.86	72.81		*
17	640 × 480 @75 Hz	37.50	75.00		*
18	640 × 480 @85 Hz	43.27	85.01		*
19	852 × 480 @60 Hz	31.47	59.94		*2
20	800 × 600 @56 Hz	35.16	56.25		*
21	800 × 600 @60 Hz	37.88	60.32		*
22	800 × 600 @72 Hz	48.08	72.19		*
23	800 × 600 @75 Hz	46.88	75.00		*
24	800 × 600 @85 Hz	53.67	85.06		*
25	1,024 × 768 @60 Hz	48.36	60.00		*
26	1,024 × 768 @70 Hz	56.48	70.07		*
27	1,024 × 768 @75 Hz	60.02	75.03		*
28	1,024 × 768 @85 Hz	68.68	85.00		*
29	1,152 × 864 @75 Hz	67.50	75.00		*
30	1,280 × 960 @60 Hz	60.00	60.00		*
31	1,280 × 960 @85 Hz	85.94	85.00		*
32	1,280 × 1,024 @60 Hz	63.98	60.02		*
33	1,280 × 1,024 @75 Hz	79.98	75.03		*
34	1,280 × 1,024 @85 Hz	91.15	85.02		*
35	1,600 × 1,200 @60 Hz	75.00	60.00		*
36	1,600 × 1,200 @65 Hz	81.25	65.00		*
37	1,066 × 600 @60 Hz	37.88	60.32		*
38	1,366 × 768 @60 Hz	48.36	60.00		*
39	Macintosh13" (640 × 480)	35.00	66.67		*
40	Macintosh16" (832 × 624)	49.72	74.54		*
41	Macintosh21" (1,152 × 870)	68.68	75.06		*

*1: When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal.

*2: When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.

Note: Signals without above specification may not be displayed properly.

2. Safety Precautions

2.1. General Guidelines

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly**

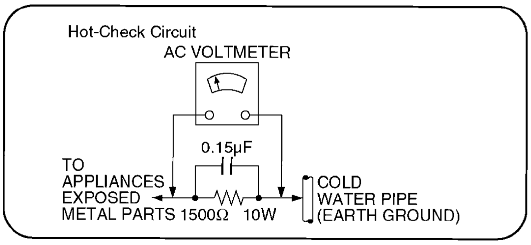
installed.

3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

2.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be∞.**

Figure 1



2.1.2. Leakage Current Hot Check (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be**

used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder Remove device. Some solder Remove devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to

the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

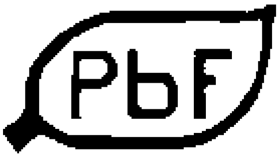
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues.

For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol

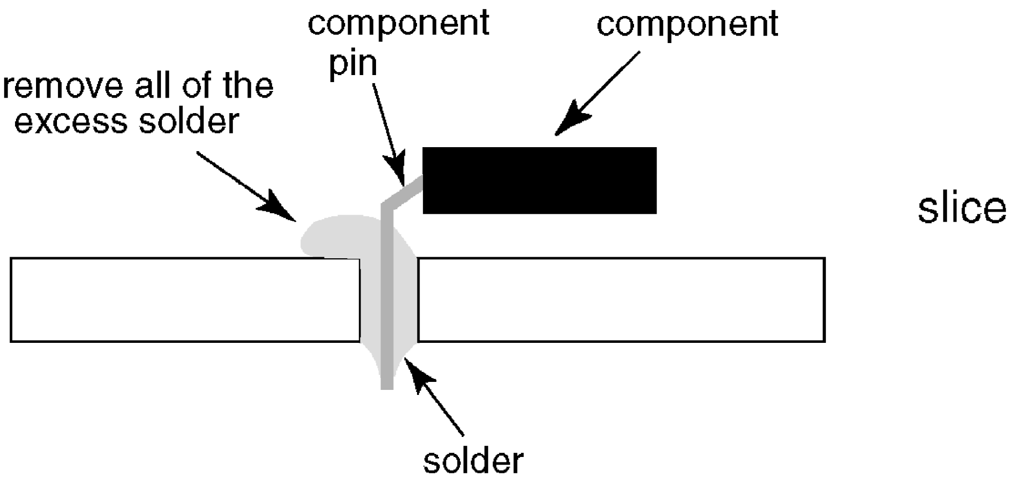


stamped on the back of PCB.

Caution

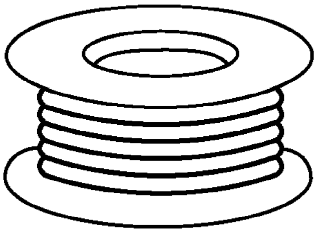
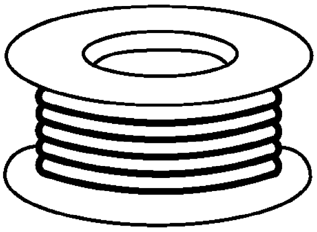
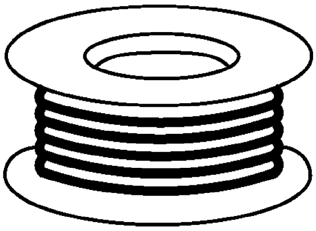
- **Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).**
- **Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).**
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)


component pin
component
remove all of the excess solder
slice
solder

Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5. PCB Structure sheet of GPH8D chassis

Board Name	Function	Remarks
D	Digital Signal Processor, Format Converter, Plasma AI Processor	✳1
J	Slot Interface (Audio/Video/Sync input Switch), SYNC processor, Audio processor, Speaker out amplifier, DC-DC converter	✳1
SS	Sustain drive	✳1
SC	Scan drive	✳1
SU	Scan out (Upper)	✳1
SD	Scan out (Lower)	✳1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Center)	
C3	Data Drive (Upper Left)	
C4	Data Drive (Lower Left)	
C5	Data Drive (Lower Center)	
C6	Data Drive (Lower Right)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain out (Upper)	
SS3	Sustain out (Lower)	
V1	LED (stand-by / Power on) & Remote receiver	✳1
PB	Fan control	✳1
P	Line filter, Power supply	✳1
HX	PC / RS-232C	
HB	BNC Composite Video	✳2
HA	BNC Component Video	✳3

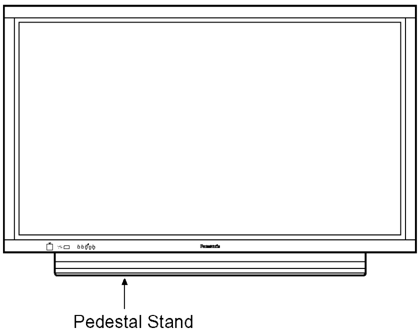
Remarks

✳1: Recommend PCB's for initial service for GPH8D chassis.
✳2: For TH-65PHD8BK/EK/UK
✳3: For TH-65PHD8UK

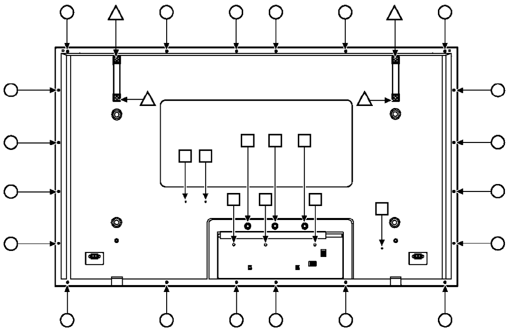
6. Service Hint

[How to set the plasma unit for servicing]

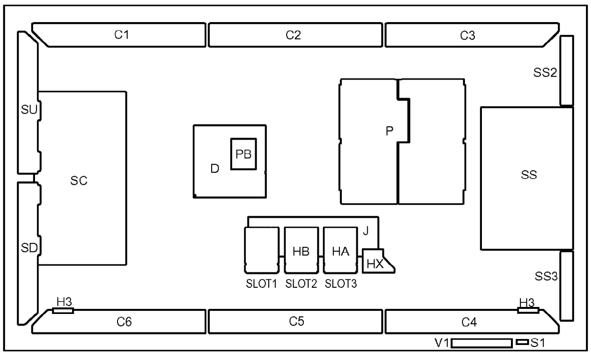
Place the plasma unit on the pedestal stand.
(Optional Accesory)


Pedestal Stand

Remove the Back Cover.



Remove : 4 screws (△) XYN8+F30FJK
9 screws (□) THEL0239
20 screws (○) XYN4+F38FJK


C1
C2
C3
SS2
SU
SC
D
PB
P
SS
SD
J
HB
HA
HX
SLOT1
SLOT2
SLOT3
SS3
H3
H3
C6
C5
C4
V1
S1

P.C.Boards Location (UK Version)

	SLOT1	SLOT2	SLOT3
65PHD8UK	-	HB	HA
65PHD8BK/EK	HB	-	-

Note:
Extension cable kit for Slot Board is supplied as service fixtures and tools.
(Part No. TZSC0704)

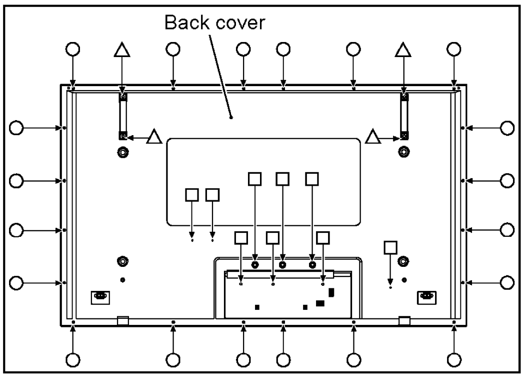
7. Disassembly

- To remove P.C.B., wait for 1 minute after power was off for discharge from electrolysis capacitors.

- ⬆ and ⇧ marks indicate screw positions.

7.1. Removal of the Back Cover

1. Remove the screws (×20 ○, ×9 □, ×4 △) and then remove the Back Cover.

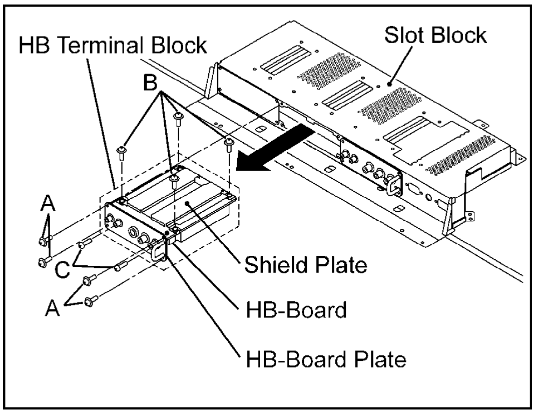


7.2. Removal of the HA-Board and the HB-Board

7.2.1. TH-65PHD8UK

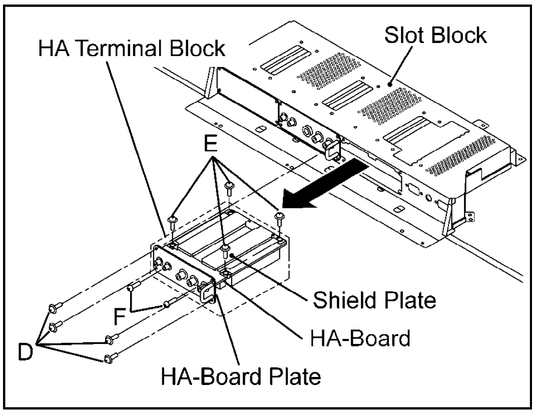
- Removal of the HB-Board

1. **Remove the 4 screws (A) of the HB Terminal Block and then remove the HB Terminal Block.**
2. **Remove the 4 screws (B).**
3. **Remove the 2 screws (C) and then remove the HB-Board.**


HB Terminal Block
Slot Block
B
A
C
A
Shield Plate
HB-Board
HB-Board Plate

- Removal of the HA-Board

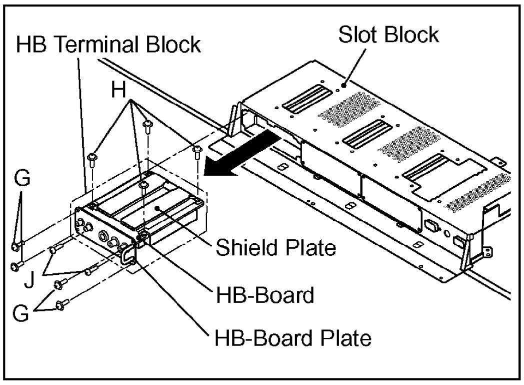
1. **Remove the 4 screws (D) of the HA Terminal Block and then remove the HA Terminal Block.**
2. **Remove the 4 screws (E).**
3. **Remove the 2 screws (F) and then remove the HA-Board.**


HA Terminal Block
Slot Block
E
Shield Plate
F
HA-Board
D
HA-Board Plate

7.2.2. TH-65PHD8EK/BK

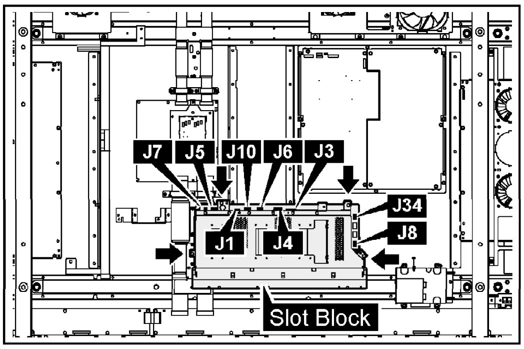
- Removal of the HB-Board

1. **Remove the 4 screws (G) of the HB Terminal Block and then remove the HB Terminal Block.**
2. **Remove the 4 screws (H).**
3. **Remove the 2 screws (J) and then remove the HB-Board.**


HB Terminal Block
Slot Block
H
G
Shield Plate
J
HB-Board
G
HB-Board Plate

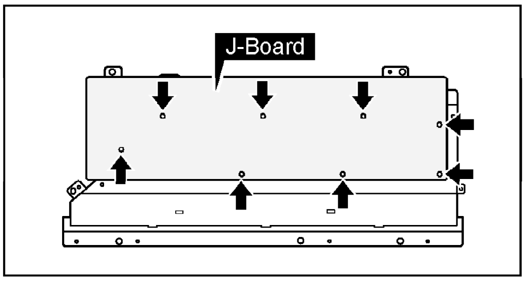
7.3. Removal of the Slot Block

1. **Disconnect the couplers(J1, J3, J4, J5, J6, J7, J10, J34).**
2. **Remove the 4 screws and then remove the Slot Block.**


J7
J5
J10
J6
J3
J34
J8
J1
J4
Slot Block

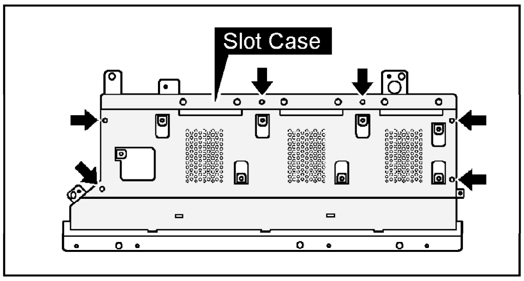
7.4. Removal of the J-Board

1. Remove the HA Terminal Block and the HB Terminal Block.
   (Reference to Removal of the HA-Board and the HB-Board)
2. Remove the Slot Block.
   (Reference to Removal of the Slot Block)
3. Remove the 8 screws and then remove the J-Board.

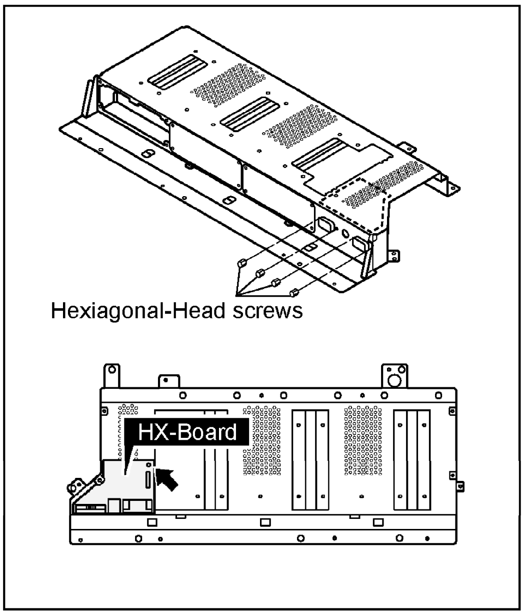


7.5. Removal of the HX-Board

1. Remove the HA Terminal Block and the HB Terminal Block.
   (Reference to Removal of the HA-Board and the HB-Board)
2. Remove the Slot Block.
   (Reference to Removal of the Slot Block)
3. Remove the J-Board.
   (Reference to Removal of the J-Board)
4. Remove the 6 screws and then remove the Slot Case.

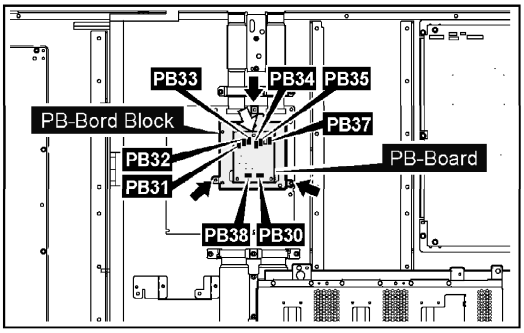


5. Remove the 4 Hexagonal-Head screws and the 1 screw of the HX-Board and then remove the HX-Board.


Hexiagonal-Head screws
HX-Board

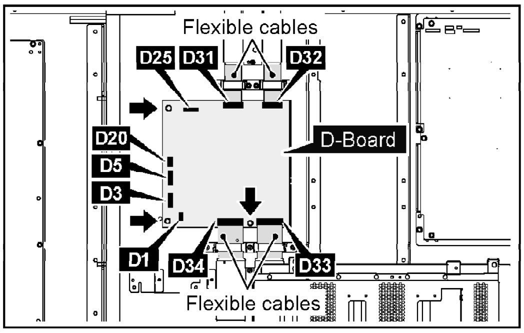
7.6. Removal of the PB-Board

1. **Disconnect the couplers(PB30, PB31, PB32, PB33, PB34, PB35, PB37, PB38).**
2. **Remove the 3 scewqs and then remove the PB-Board Block.**
3. **Remove the 1 screw and then remove the PB-Board.**


PB33
PB34
PB35
PB-Bord Block
PB37
PB32
PB-Board
PB31
PB38
PB30

7.7. Removal of the D-Board

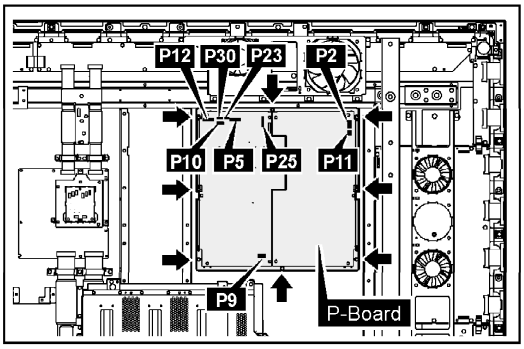
1. **Remove the PB-Board Block.(Reference to Removal of the PB-Board)**
2. **Disconnect the couplers(D1, D3, D5, D20, D25).**
3. **Remove the flexible cables from the couplers(D31, D32, D33, D34).**
4. **Remove the 3 screws and then remove the D-Board.**


Flexible cables
D25
D31
D32
D20
D5
D3
D-Board
D1
D34
D33
Flexible cables

7.8. Removal of the P-Board

1. Disconnect the couplers(P2, P5, P9, P10, P11, P12, P23, P25, P30).

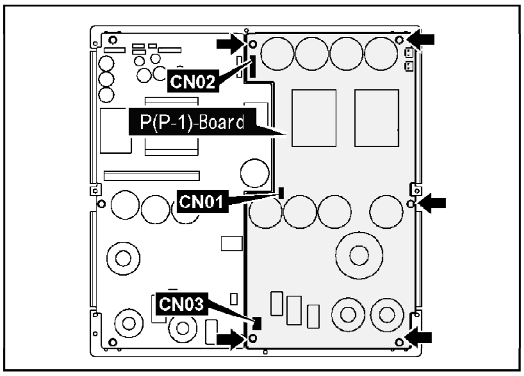
2. Remove the 8 screws and then remove the P-Board.


P12
P30
P23
P2
P10
P5
P25
P11
P9
P-Board

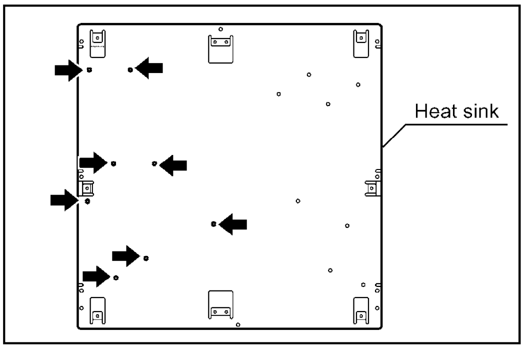
7.8.1. Removal of the P(P-1)-Board

1. Disconnect the couplers(CN01, CN02, CN03).

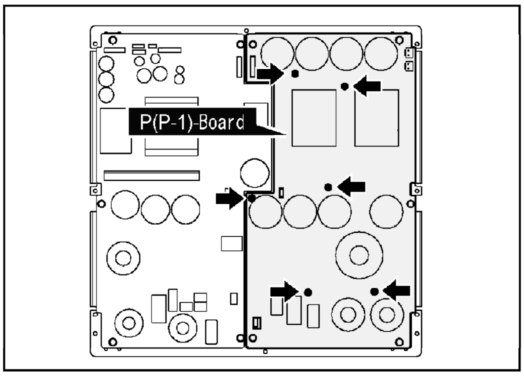
2. Remove the 5 screws.(Top view)


CN02
P(P-1)-Board
CN01
CN03

3. Remove the 8 screws.(Bottom view)

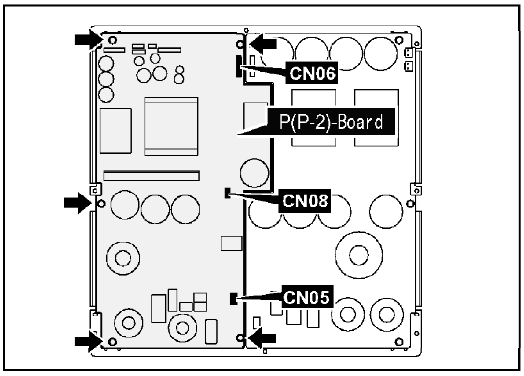


4. **Remove the P(P-1)-Board from the 6 molding props.**

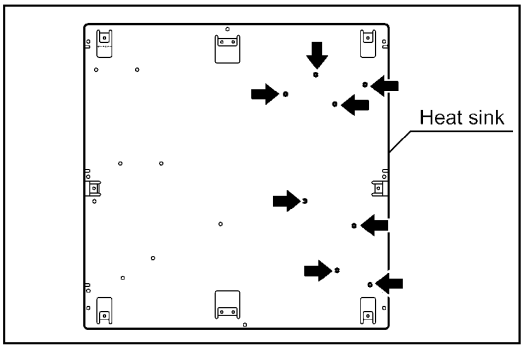


7.8.2. Removal of the P(P-2)-Board

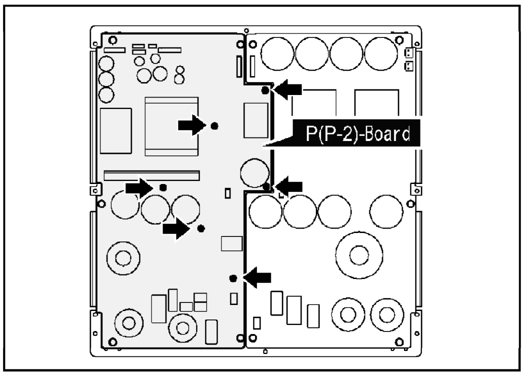
1. **Disconnect the couplers(CN05, CN06, CN08).**
2. **Remove the 5 screws.(Top view)**


CN06
P(P-2)-Board
CN08
CN05

3. **Remove the 8 screws.(Bottom view)**

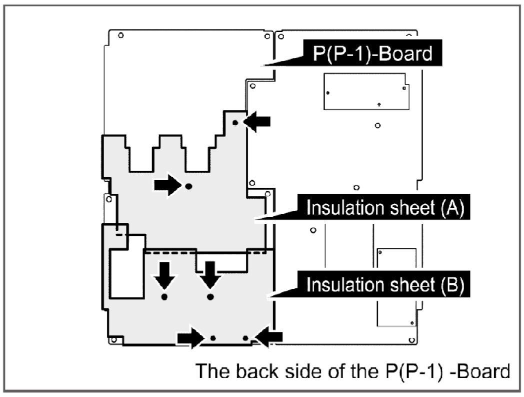


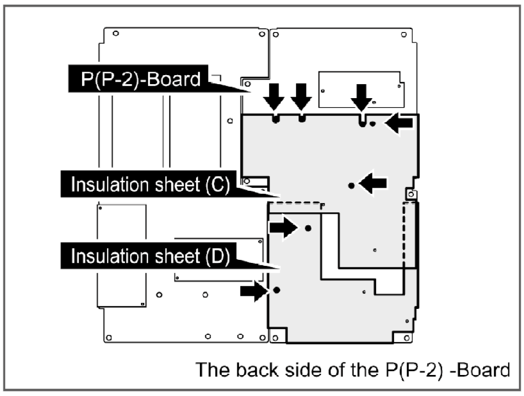
4. Remove the P(P-2)-Board from the 6 molding props.



Note:

- **When assembling the P(P-1)-Board and the P(P-2)-Board, the position of each hole of the insulation sheets(A, B, C, D) is set to the position of each hole of the P(P-1)-Board and the P(P-2)-Board and then assemble them. (⬆ marks indicate setting positions.)**

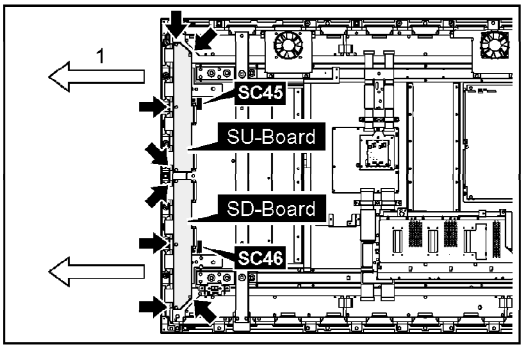

P(P-1)-Board
Insulation sheet (A)
Insulation sheet (B)
The back side of the P(P-1) -Board


P(P-2)-Board
Insulation sheet (C)
Insulation sheet (D)

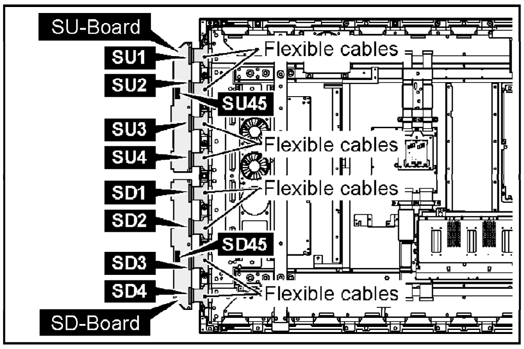
The back side of the P(P-2) -Board

7.9. Removal of the SU-Board and the SD-Board

1. **Disconnect the couplers(SC45, SC46).**
2. **Remove the each 4 screws.**
3. **Slide the SU-Board and the SD-Board to the left (arrow1).**

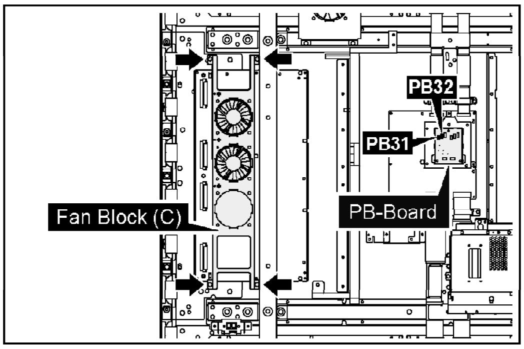

1
SC45
SU-Board
SD-Board
SC46

4. **Disconnect the coupler(SU45).**
5. **Remove the flexible cables from the couplers(SU1, SU2, SU3, SU4) and then remove the SU-Board.**
6. **Disconnect the coupler(SD46).**
7. **Remove the flexible cables from the couplers(SD1, SD2, SD3, SD4) and then remove the SD-Board.**


SU-Board
SU1
SU2
SU45
SU3
SU4
SD1
SD2
SD45
SD3
SD4
SD-Board
Flexible cables
Flexible cables
Flexible cables
Flexible cables

7.10. Removal of the SC-Board

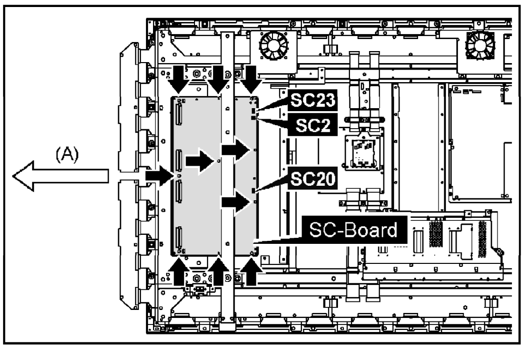
1. Disconnect the couplers(PB31, PB32).
2. Remove the each 4 screws and then remove the Fan Block (C).



3. Slide the SU-Board and the SD-Board to the left. (Refarence to Removal of the SU-Board and the SD-Board)
4. Disconnect the couplers(SC2, SC20, SC23).
5. Remove the 10 screws of the SC-Board and slide the SC-Board in the direction of the arrow (A) and then remove the SC-Board.

   Note:

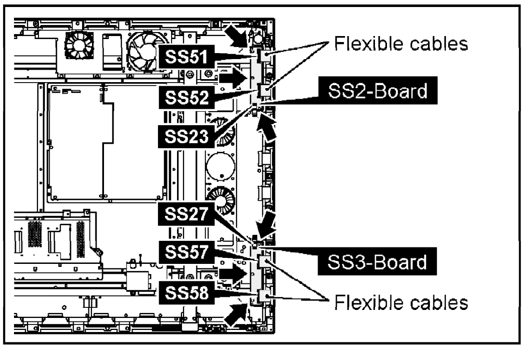
   Remove the SC-Board not to damage the flexible cables of the SU-Board and the SD-Board, parts on the SC-Board.



7.11. Removal of the SS2-Board and the SS3-Board

1. Disconnect the coupler(SS23).
2. Remove the flexible cables from the couplers(SS51, SS52).
3. Disconnect the coupler(SS27).
4. Remove the flexible cables from the couplers(SS57, SS58).
5. Remove the each 3 screws and then remove the SS2-Board and

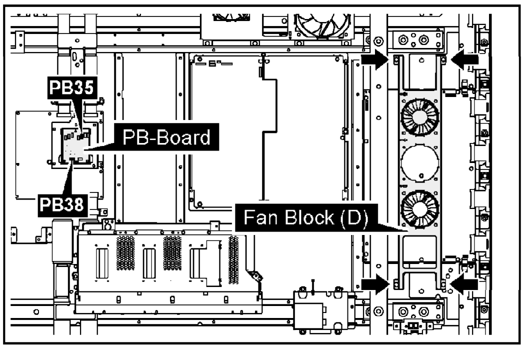
the SS3-Board.


SS51
SS52
SS23
SS27
SS57
SS58
Flexible cables
SS2-Board
SS3-Board
Flexible cables

7.12. Removal of the SS-Board

1. Disconnect the couplers(PB35, PB38).

2. Remove the 4 screws and then remove the Fan Block (D).


PB35
PB-Board
PB38
Fan Block (D)

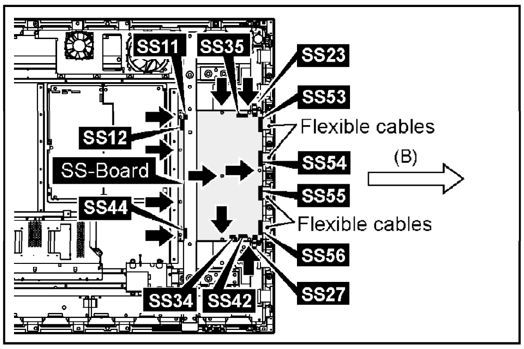
3. Disconnect the couplers(SS11, SS12, SS23, SS27, SS34, SS35, SS42, SS44).

4. Remove the flexible cables from the couplers(SS53, SS54, SS55, SS56).

5. Remove the 10 screws of the SS-Board and slide the SS-Board in the direction of the arrow (B) and then remove the SS-Board.

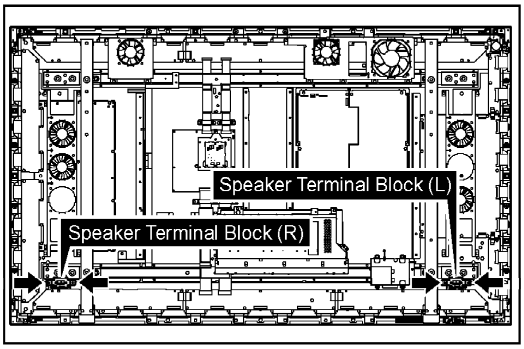
Note:

Remove the SS-Board not to damage the flexible cables of the Plasma Panel and parts on the SS-Board.

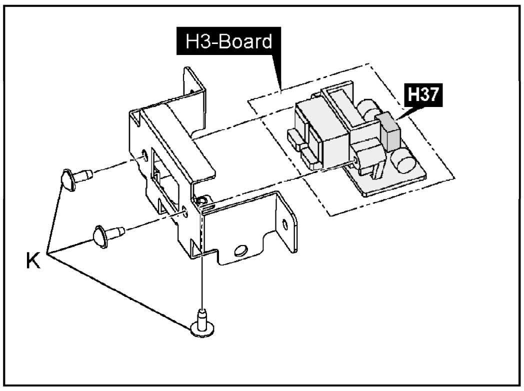

SS11
SS35
SS23
SS53
Flexible cables
SS12
SS-Board
SS54
(B)
SS55
SS44
Flexible cables
SS56
SS34
SS42
SS27

7.13. Removal of the H3-Board (L, R)

1. Remove the each 2 screws and then remove the Speaker Terminal Blocks (L, R).

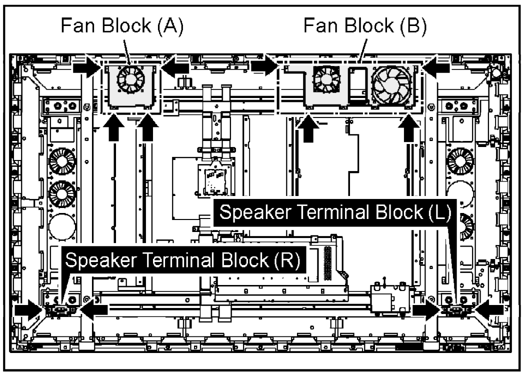

Speaker Terminal Block (L)
Speaker Terminal Block (R)

2. Disconnect the coupler(H37).
3. Remove the 3 screws (K) and then remove the H3-Board.


H3-Board
H37
K

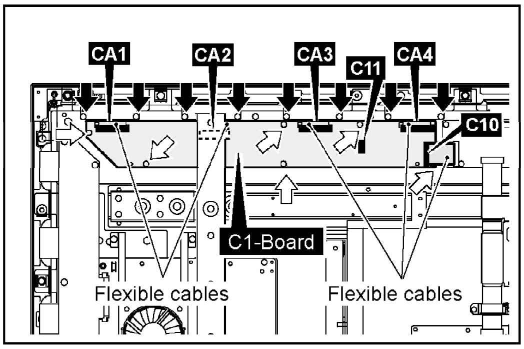
7.14. Removal of the C1, C2, C3, C4, C5 and the C6-Board

1. Remove the each 4 screws and then remove the Fan Blocks (A, B).
2. Remove the each 2 screws and then remove the Speaker Terminal Blocks (L, R).


Fan Block (A)
Fan Block (B)
Speaker Terminal Block (L)
Speaker Terminal Block (R)

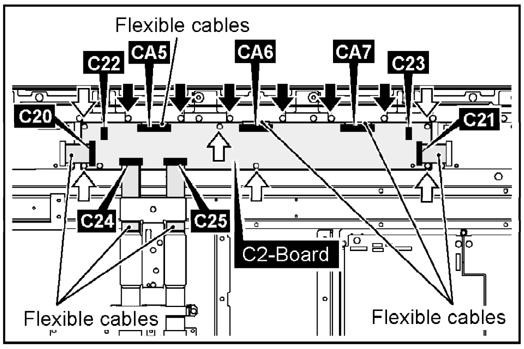
7.14.1. Removal of the C1-Board

1. **Remove the flexible cable from the coupler(C10).**
2. **Disconnect the coupler(C11).**
3. **Remove the 8 screws and then remove the flexible cables from the couplers(CA1, CA2, CA3, CA4).**
4. **Remove the 6 screws and then remove the C1-Board.**


CA1
CA2
CA3
C11
CA4
C10
C1-Board
Flexible cables
Flexible cables

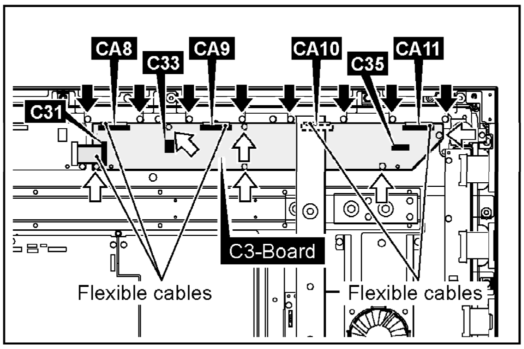
7.14.2. Removal of the C2-Board

1. **Remove the flexible cables from the couplers(C20, C21, C24, C25).**
2. **Disconnect the couplers(C22, C23).**
3. **Remove the 6 screws and then remove the flexible cables from the couplers(CA5, CA6, CA7).**
4. **Remove the 6 screws and then remove the C2-Board.**


Flexible cables
C22
CA5
CA6
CA7
C23
C20
C21
C24
C25
C2-Board
Flexible cables
Flexible cables

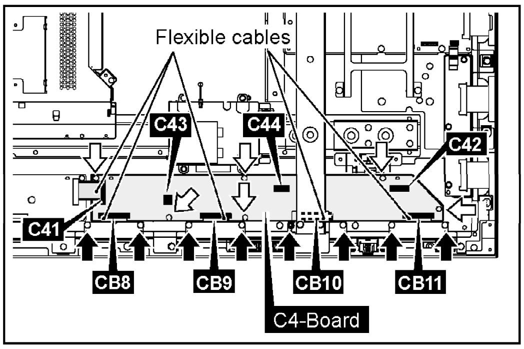
7.14.3. Removal of the C3-Board

1. **Remove the flexible cable from the coupler(C31).**
2. **Disconnect the couplers(C33, C35).**
3. **Remove the 8 screws and then remove the flexible cables from the couplers(CA8, CA9, CA10, CA11).**
4. **Remove the 6 screws and then remove the C3-Board.**


CA8
C33
CA9
CA10
C35
CA11
C31
C3-Board
Flexible cables
Flexible cables

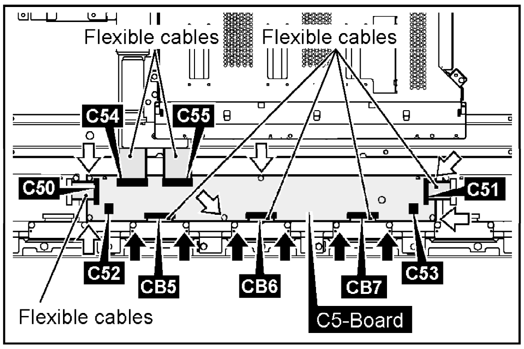
7.14.4. Removal of the C4-Board

1. **Remove the flexible cable from the coupler(C41).**
2. **Disconnect the couplers(C42, C43, C44).**
3. **Remove the 8 screws and then remove the flexible cables from the couplers(CB8, CB9, CB10, CB11).**
4. **Remove the 6 screws and then remove the C4-Board.**


Flexible cables
C43
C44
C42
C41
CB8
CB9
CB10
CB11
C4-Board

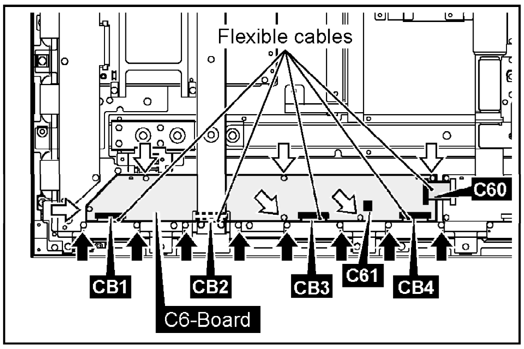
7.14.5. Removal of the C5-Board

1. **Remove the flexible cables from the couplers(C50, C51, C54, C55).**
2. **Disconnect the couplers(C52, C53).**
3. **Remove the 6 screws and then remove the flexible cables from the couplers(CB5, CB6, CB7).**
4. **Remove the 6 screws and then remove the C5-Board.**


Flexible cables
Flexible cables
C54
C55
C50
C51
C52
CB5
CB6
CB7
C53
Flexible cables
C5-Board

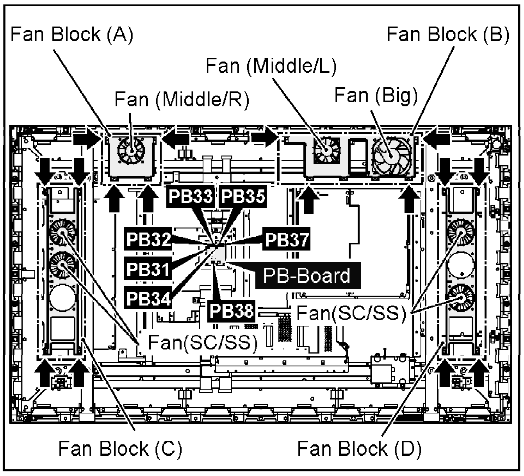
7.14.6. Removal of the C6-Board

1. **Remove the flexible cable from the coupler(C60).**
2. **Disconnect the coupler(C61).**
3. **Remove the 8 screws and then remove the flexible cables from the couplers(CB1, CB2, CB3, CB4).**
4. **Remove the 6 screws and then remove the C6-Board.**


Flexible cables
C60
CB1
CB2
CB3
C61
CB4
C6-Board

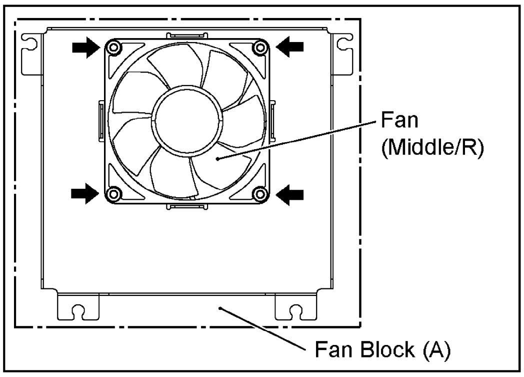
7.15. Removal of the Fan

1. Disconnect the couplers(PB31, PB32, PB33, PB34, PB35, PB37, PB38).
2. Remove the each 4 screws and then remove the Fan Blocks(A, B, C, D).


Fan Block (A)
Fan Block (B)
Fan (Middle/L)
Fan (Middle/R)
Fan (Big)
PB33
PB35
PB32
PB37
PB31
PB-Board
PB34
PB38
Fan(SC/SS)
Fan(SC/SS)
Fan Block (C)
Fan Block (D)

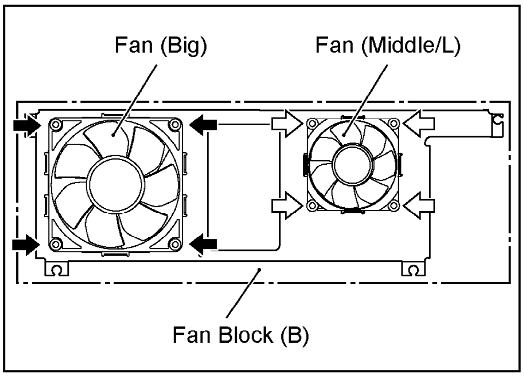
7.15.1. Removal of the Fan (Middle/R)

1. Remove the 4 screws and then remove the Fan (Middle/R).


Fan
(Middle/R)
Fan Block (A)

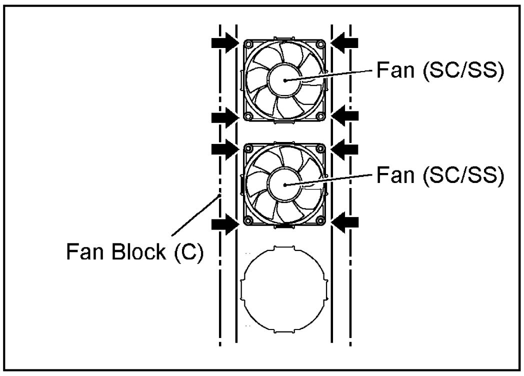
7.15.2. Removal of the Fan (Big) and the Fan (Middle/L)

1. **Remove the 4 screws and then remove the Fan (Big).**
2. **Remove the 4 screws and then remove the Fan (Middle/L).**


Fan (Big)
Fan (Middle/L)
Fan Block (B)

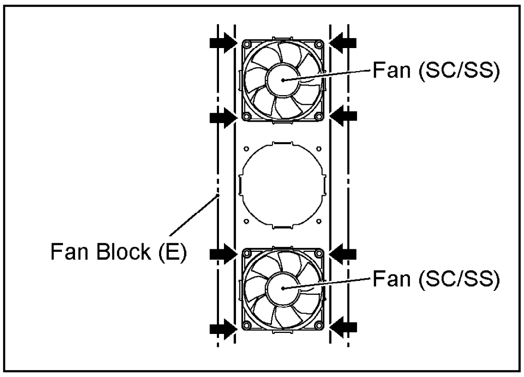
7.15.3. Removal of the Fan (SC/SS) on the SC-Board side

1. **Remove the each 4 screws and then remove the Fans (SC/SS).**


Fan (SC/SS)
Fan (SC/SS)
Fan Block (C)

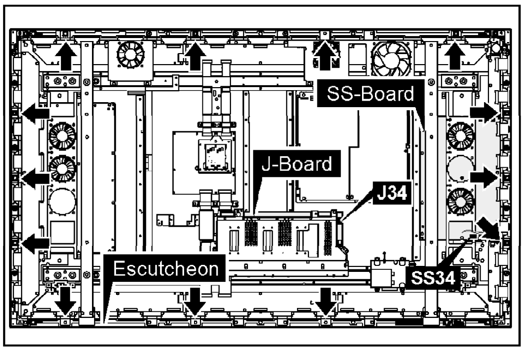
7.15.4. Removal of the Fan (SC/SS) on the SS-Board side

1. **Remove the each 4 screws and then remove the Fans (SC/ SS).**

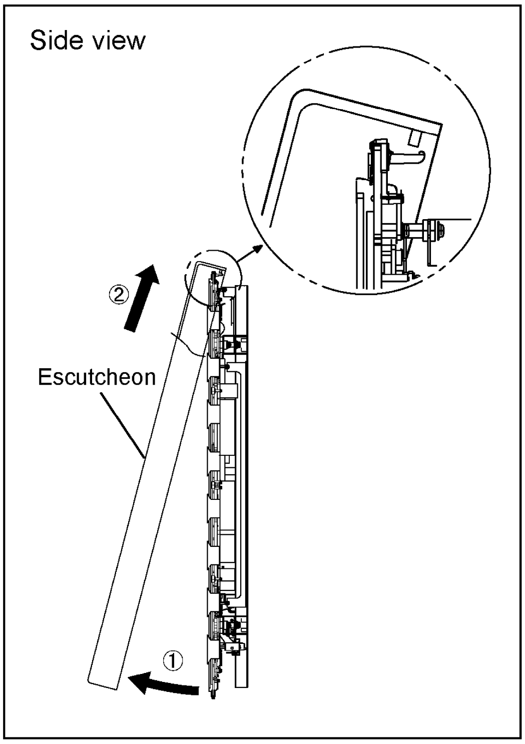

Fan (SC/SS)
Fan Block (E)
Fan (SC/SS)

7.16. Removal of the Escutcheon

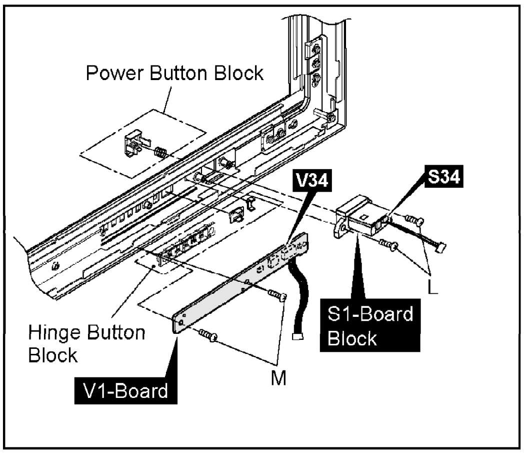
1. **Disconnect the couplers(J34, SS34).**
2. **Remove the 13 screws.**


SS-Board
J-Board
J34
Escutcheon
SS34

3. **Pull the bottom of the Escutcheon in the direction of the arrow1 and lift up the Escutcheon in the direction of the arrow2 and then remove the Escutcheon.**

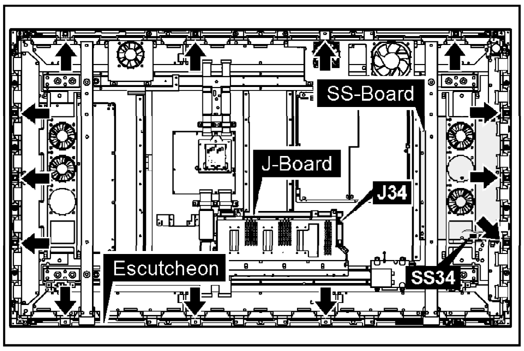

Side view
②
Escutcheon
①

4. **Remove the 2 screws(L) and then remove the S1-Board Block and then Power Button Block.**
5. **Remove the 2 screws(M) amd then remove the V1-Board and the Hinge Button Block.**

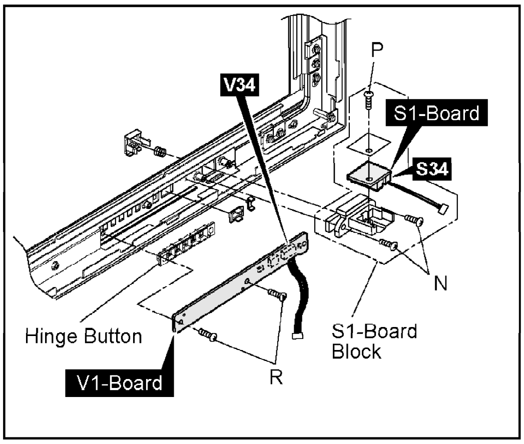

Power Button Block
V34
S34
S1-Board Block
L
Hinge Button Block
V1-Board
M

7.17. Removal of the S1-Board and the V1-Board

1. Remove the Escutcheon.
   (Refernce to Removal of Escutcheon)

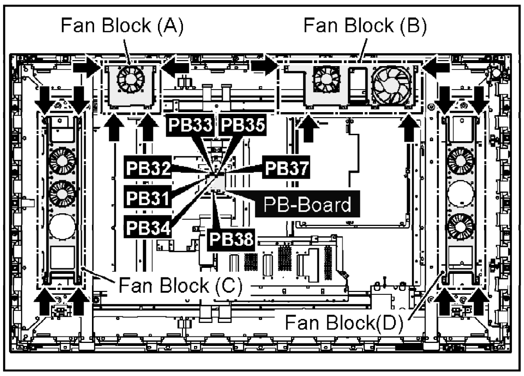

SS-Board
J-Board
J34
Escutcheon
SS34

2. Remove the 2 screws (N) and then remove the S1-Board Block.
3. Remove the 1 screw (P) and then remove the S1-Board.
4. Remove the 2 screws (R) and then remove the V1-Board.
5. Disconnect the coupler(S34) and then remove the S1-Board.
6. Disconnect the coupler(V34) and then remove the V1-Board.

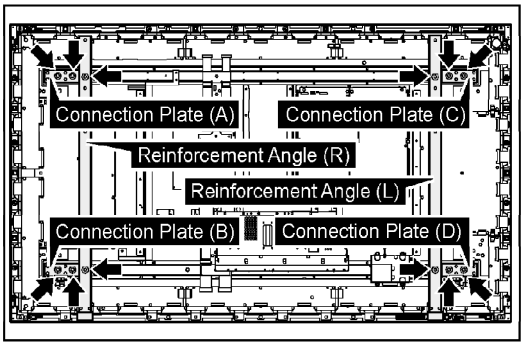

P
V34
S1-Board
S34
N
Hinge Button
S1-Board Block
V1-Board
R

7.18. Removal of the Plasma Panel

1. Disconnect the couplers(PB31, PB32, PB33, PB34, PB35, PB37, PB38).
2. Remove the each 4 screws and then remove the Fan Blocks(A, B, C, D).


Fan Block (A)
Fan Block (B)
PB33
PB35
PB32
PB37
PB31
PB-Board
PB34
PB38
Fan Block (C)
Fan Block(D)

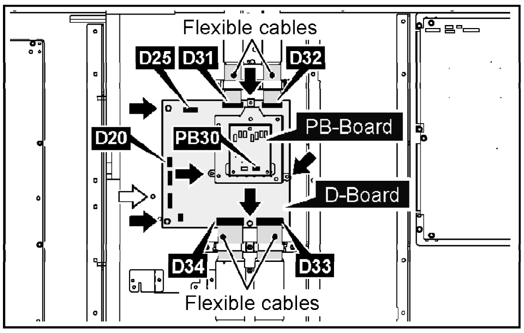
3. Remove the each 2 screws and then remove the Reinforcement Angles (L, R).
4. Remove the each 2 screws and then remove the Connection Plate (A, B, C, D).
5. Remove of the Slot Block.
   (Reference to Removal of the Slot Block).


Connection Plate (A)
Connection Plate (C)
Reinforcement Angle (R)
Reinforcement Angle (L)
Connection Plate (B)
Connection Plate (D)

6. Disconnect the couplers(D20, D25, PB30).

7. Remove the flexible cables from the couplers(D31, D32, D33, D34).

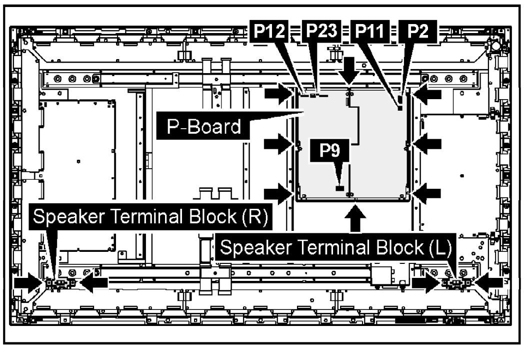
8. Remove the 7 screws and then remove the PB-Board Block and D-Board.


Flexible cables
D25
D31
D32
D20
PB30
PB-Board
D-Board
D34
D33
Flexible cables

9. Disconnect the couplers(P2, P9, P11, P12, P23).

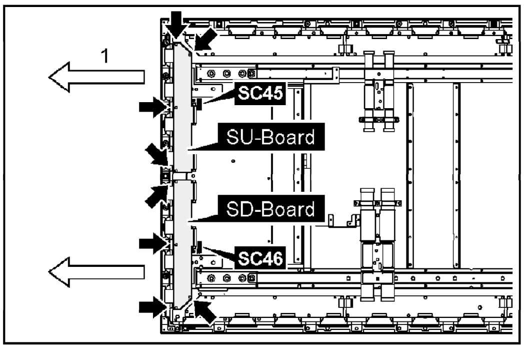
10. Remove the 8 screws and then remove the P-Board.

11. Remove the each 2 screws and then remove the Speaker Terminal Blocks (L, R).

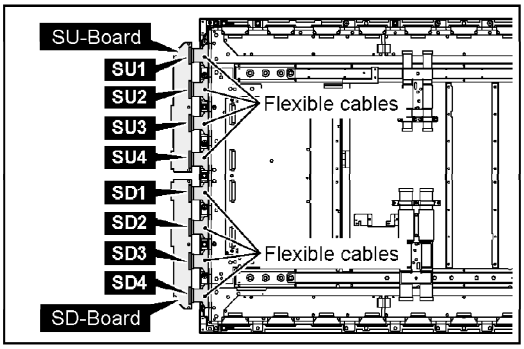

P12
P23
P11
P2
P-Board
P9
Speaker Terminal Block (R)
Speaker Terminal Block (L)

12. Disconnect the couplers(SC45, SC46).

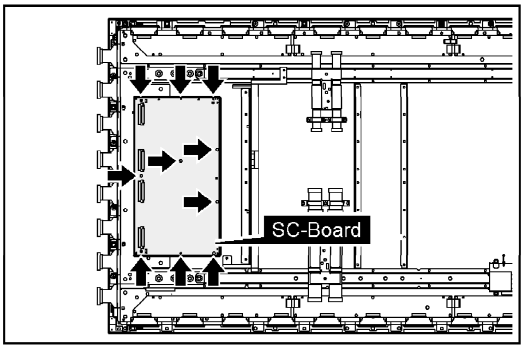
13. Remove the each 4 screws and then slide the SU-Board and the SD-Board to the left (arrow 1).


1
SC45
SU-Board
SD-Board
SC46

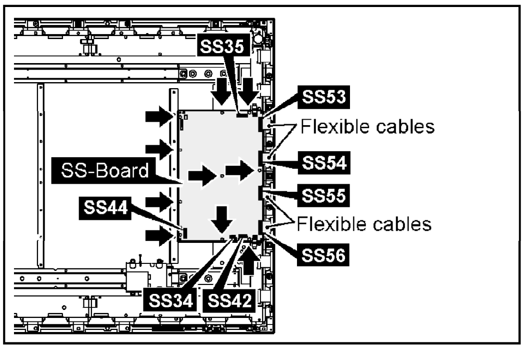
14. Remove the flexible cables from the couplers(SU1, SU2, SU3, SU4, SD1, SD2, SD3, SD4) and then remove the SU-Board and the SD-Board.


SU-Board
SU1
SU2
SU3
SU4
Flexible cables
SD1
SD2
SD3
SD4
Flexible cables
SD-Board

15. Remove the 10 screws and then remove the SC-Board.

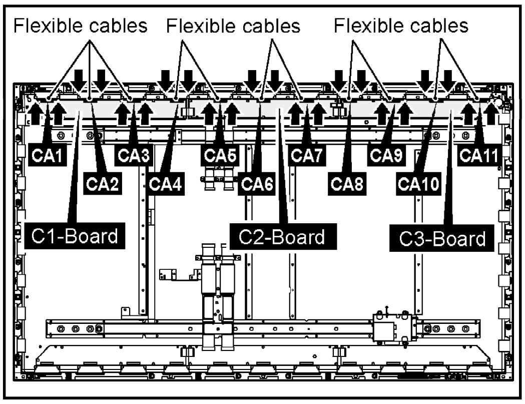


16. Remove the SS2-Board and the SS3-Board.
    (Reference to Removal of the SS2-Board and the SS3-Board).
17. Disconnect the couplers(SS34, SS35, SS42, SS44).
18. Remove the flexible cables from the couplers(SS53, SS54, SS55, SS56).
19. Remove the 10 screws and then remove the SS-Board.


SS35
SS53
Flexible cables
SS-Board
SS54
SS55
SS44
Flexible cables
SS56
SS34
SS42

20. Remove the 22 screws.

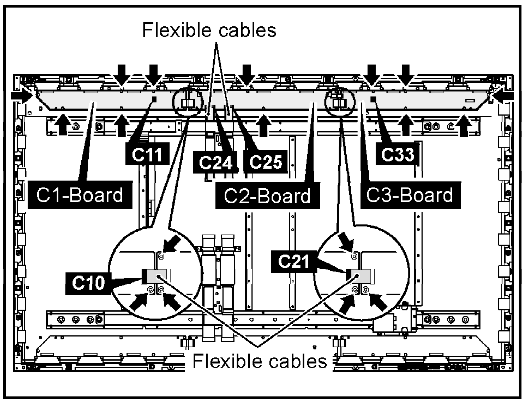
21. Remove the flexible cables from the couplers(CA1, CA2, CA3, CA4, CA5, CA6, CA7, CA8, CA9, CA10, CA11).


Flexible cables
Flexible cables
Flexible cables
CA1
CA3
CA5
CA7
CA9
CA11
CA2
CA4
CA6
CA8
CA10
C1-Board
C2-Board
C3-Board

22. Disconnect the couplers(C11, C33).

23. Remove the flexible cables from the couplers(C10, C21, C24, C25).

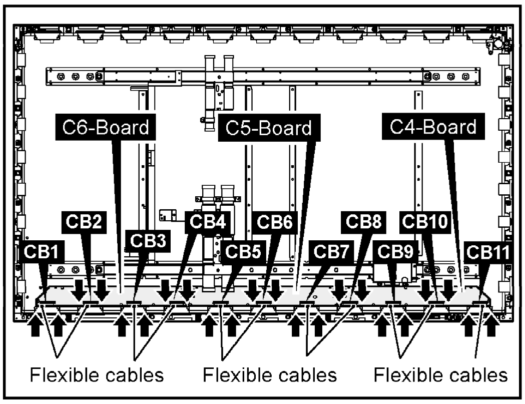
24. Remove the each 6 screws and then remove the C1-Board, the C2 -Board and the C3-Board.


Flexible cables
C11
C24
C25
C33
C1-Board
C2-Board
C3-Board
C21
C10
Flexible cables

25. Remove the 22 screws.

26. Remove the flexible cables from the couplers(CB1, CB2, CB3,

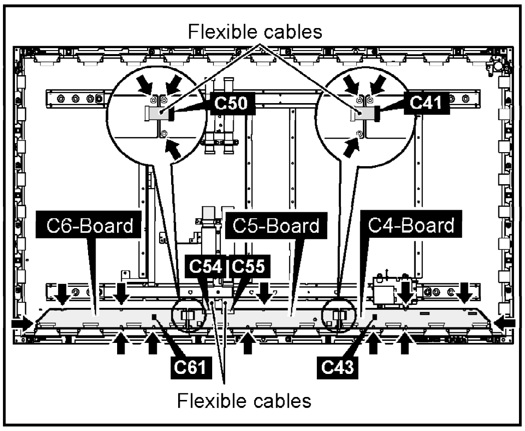
CB4, CB5, CB6, CB7, CB8, CB9, CB10, CB11).


C6-Board
C5-Board
C4-Board
CB2
CB4
CB6
CB8
CB10
CB1
CB3
CB5
CB7
CB9
CB11
Flexible cables
Flexible cables
Flexible cables

27. Disconnect the couplers(C43, C61).

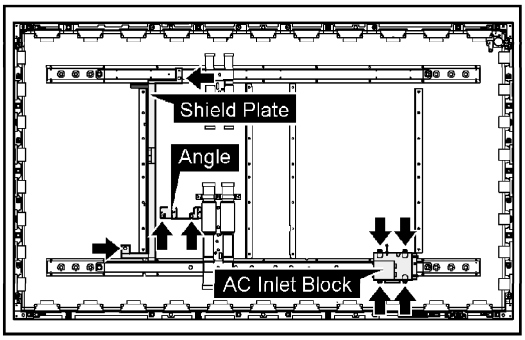
28. Remove the flexible cables from the couplers(C41, C50, C54, C55).

29. Remove the each 6 screws and then remove the C4-Board, the C5 -Board and the C6-Board.


Flexible cables
C50
C41
C6-Board
C5-Board
C4-Board
C54
C55
C61
C43
Flexible cables

30. Remove the each 2 screws and then remove the Shield Plate and the Angle.

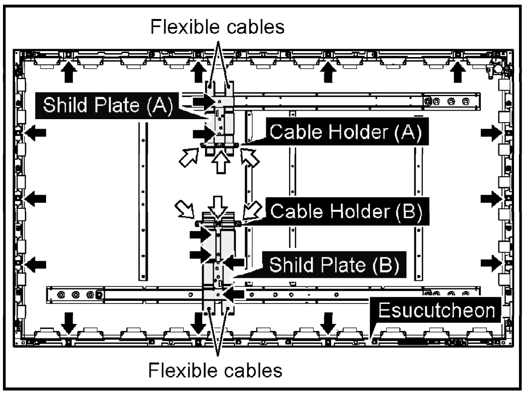
31. Remove the 4 screws and then remove the AC Inlet Block.


Shield Plate
Angle
AC Inlet Block

32. **Remove the each 2 screws and then remove the Shield Plates (A, B).**

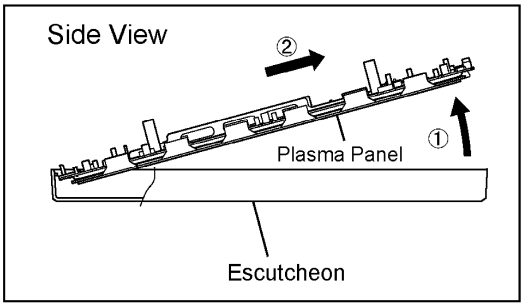
33. **Remove the each 3 screws and then remove the Cable Holders (A, B) and the flexible cables.**

34. **Remove the 13 screws of the Escutcheon.**



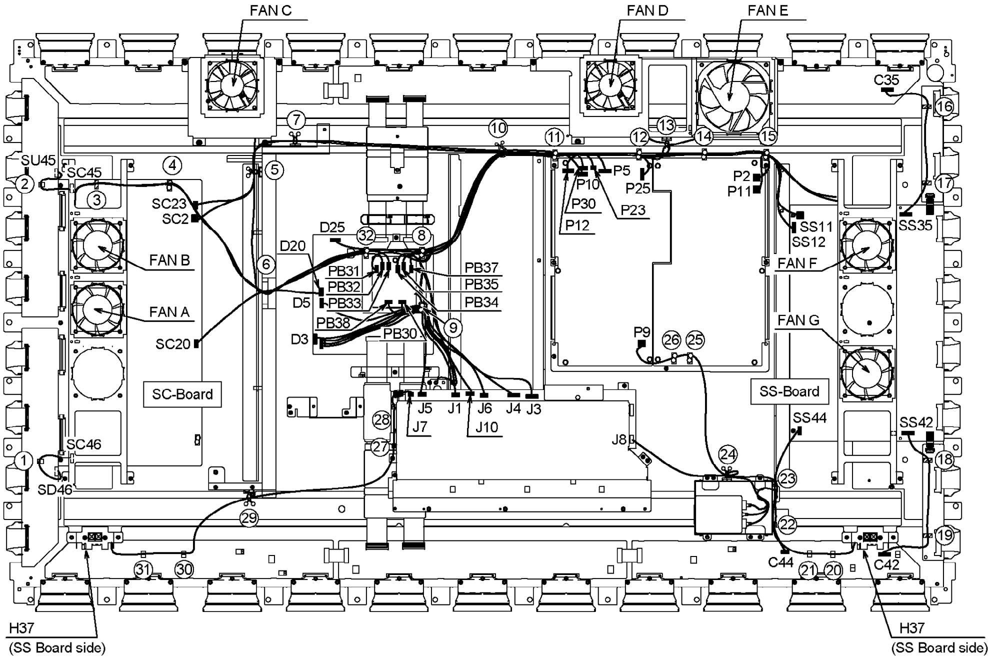
Flexible cables
Shild Plate (A)
Cable Holder (A)
Cable Holder (B)
Shild Plate (B)
Esucutcheon
Flexible cables

35. **Lift up the bottom of the Plasma Panel in the direction of the arrow1 and pull the Plasma Panel in the direction of the arrow2 and then remove the Plasma Panel.**



Side View
②
①
Plasma Panel
Escutcheon

8. Location of Lead Wiring


FAN C
FAN D
FAN E
C35
SU45
SC45
SC23
SC2
D25
D20
FAN B
FAN A
SC20
SC-Board
SC46
SD46
PB31
PB32
PB33
PB38
D5
D3
PB30
PB37
PB35
PB34
J5
J7
J1
J6
J10
J4
J3
J8
P5
P10
P30
P12
P25
P23
P2
P11
SS11
SS12
SS35
FAN F
FAN G
P9
SS-Board
SS44
SS42
C44
C42
H37
(SS Board side)
H37
(SS Board side)
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
㉘
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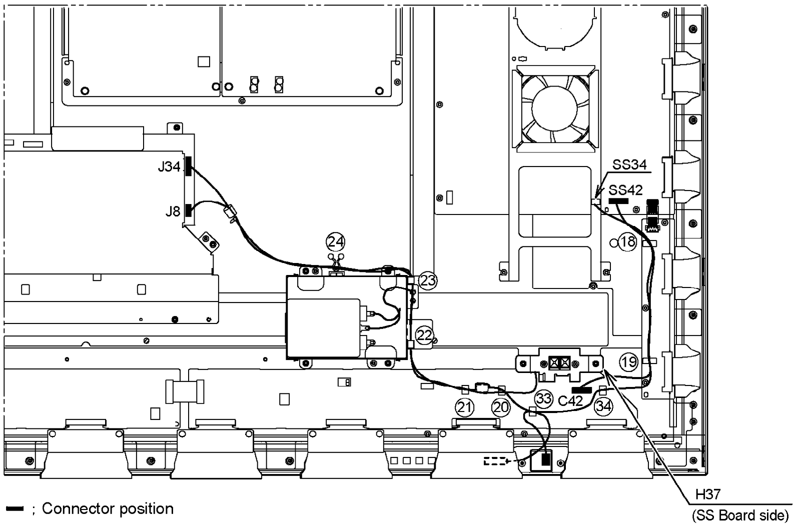
㉚
㉛
㉜

Enlarged view of lower right side


J34
J8
SS34
SS42
C42
H37
(SS Board side)
⑱
⑲
⑳
㉑
㉒
㉓
㉔
(33)
(34)
▬ ; Connector position

Clamp position

CON : No.	CON : No.	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔	㉕	㉖	㉗	㉘	㉙	㉚	㉛	㉜	㉝	㉞
SC2	P2					○		○			○	○	○		○	○																			
SC23	P23					○		○			○	○																							
SC20	D20						○																												
SC45	SU45		○																																
SC46	SD46	○																																	
D25	P25								○		○	○	○																						
FAN A	PB31			○	○		○																												
FAN B	PB32			○	○		○																												
FAN C	PB33					○	○																												
FAN D	PB37								○		○	○	○	○																					
FAN E	PB34								○		○	○	○	○																					
FAN F	PB35								○		○	○	○		○	○																			
FAN G	PB38								○	○	○	○	○		○	○																			
PB30	P30								○		○	○																							
D5	J5									○																									
	J6									○																									
D1	J1									○																									
	Grand lead	No clamp treatment																																	
D3	J3									○																									
P10	J10								○		○	○																							
P5	J4								○		○	○																							
P12	SS12												○		○	○																			
P11	SS11															○																			
C35	SS35																○	○																	
C42	SS42																		○	○															
C44	SS44																						○	○											
J34	V34 (V1-Board)																				○	○	○	○	○									○	
S34 (S1-Board)	SS34																		○	○														○	○
H37 (SS-Board side)	J8																				○	○	○	○	Ⓐ										
H37 (SC-Board side)	J7																											○	○	Ⓐ	○	○			
AC Inlet	P9																								○	○	○								

Ⓐ : Manage wires not to slack.

9. Adjustment Procedure

9.1. Driver Set-up

9.1.1. Item / Preparation

1. Input a white signal of the RGB signal generator.

2. Set the picture adjustment items as follows.

- **Picture menu : Standard**
- **Color temperature : Normal**
- **Picture : 25**
- **Aspect : Full**

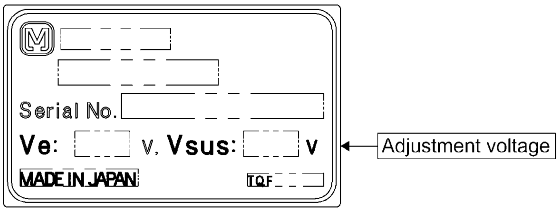
9.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS	182V ± 2V	VR351 (P)	*
Ve	TPVE	150V ± 2V	VR6250 (SS)	*
Vda	TPVDA	75V ± 1V	Fixed	
Vad	TPVAD	-85V ± 1V	VR6801(SC)	
Vscn	TPVSCN	Vad + 120V ± 4V	Fixed	
Vset	TPVSET	230V ± 7V	Fixed	
Vbk	TPVBK	140V ± 1V	VR6802(SC)	

*See the Panel label.

Panel Label information



Caution

1. First perform Vsus voltage adjustment.

2. Confirmation of Vscn voltage should be performed after confirmation of Vad voltage adjustment.
When Vad = -85V, Voltage of Vscn is 35V ± 4V.

9.2. Initialization Pulse Adjust

1. Input a white signal to plasma video input.

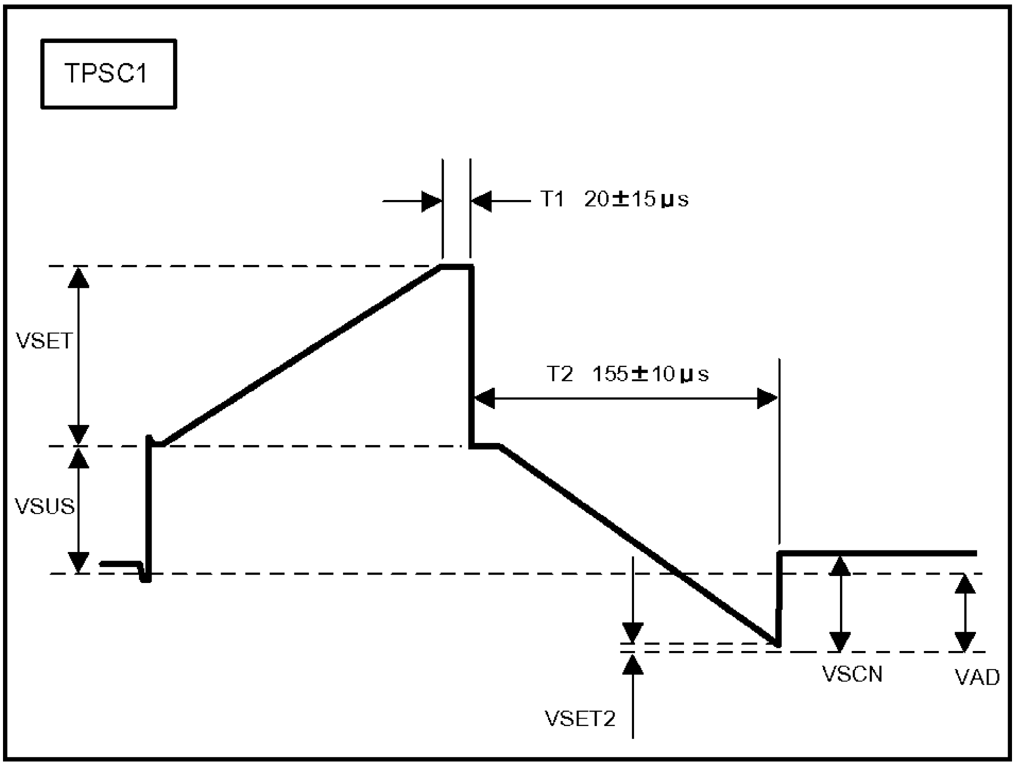
2. Set the picture adjustment items as follows.

- **Picture menu : Standard**
- **Color temperature : Normal**
- **Picture : 25**
- **Aspect : Full**

3. Connect Oscilloscope to TPSC1 (T1) and check for 20 ± 15 μ Sec.

4. Connect Oscilloscope to TPSC1 (T2) and adjust VR6602 for 155 ± 10 μ Sec.

	Test point	Volume	Level
T1	TPSC1 (SC)	Fixed	20 ± 15 μ Sec
T2	TPSS1 (SS)	VR6602(SC)	155 ± 10 μ Sec



9.3. P.C.B. (Printed Circuit Board) Remove

9.3.1. Caution

1. To remove P.C.B., wait 1 minute after power was off for discharge from electrolysis capacitors.

9.3.2. Quick adjustment after P.C.B. Remove

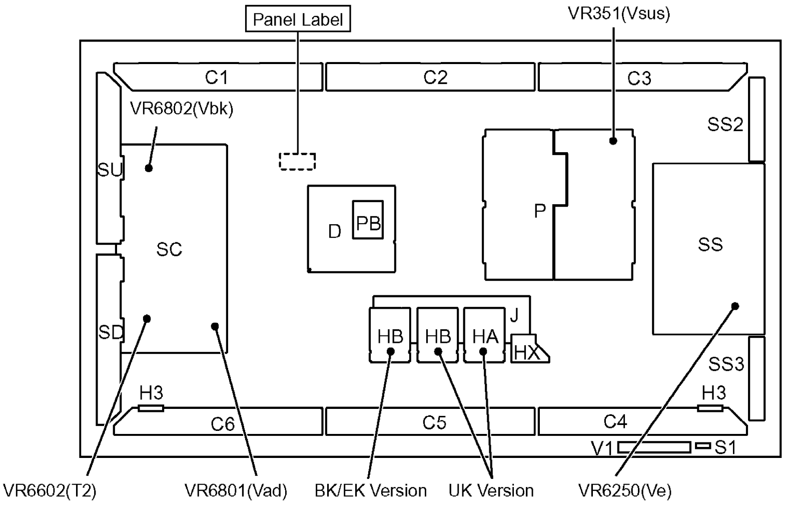
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS	182V ± 2V	VR351 (P)	*
SC Board	Vad	TPVAD	-85V ± 1V	VR6801 (SC)	
	Vscn	TPVSCN	Vad + 120V ± 4V	Fixed	
	Vset	TPVSET	230V ± 7V	Fixed	
	Vbk	TPVBK	140V ± 1V	VR6802 (SC)	
SS Board	Ve	TPVE	150V ± 2V	VR6250 (SS)	*
	Vda	TPVDA	75V ± 1V	Fixed	
D, J Board	White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

***See the Panel label.**

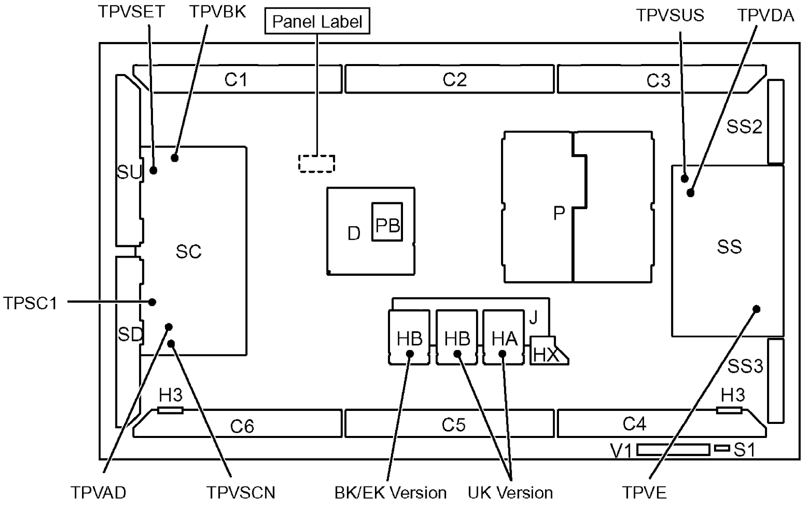
Caution:

Absolutely do not reduce Vsus below Ve not to damage the P.C.B.

9.4. Adjustment Volume Location


Panel Label
VR351(Vsus)
C1
C2
C3
VR6802(Vbk)
SS2
SU
P
D
PB
SC
SS
J
SD
HB
HB
HA
HX
SS3
H3
H3
C6
C5
C4
V1
S1
VR6602(T2)
VR6801(Vad)
BK/EK Version
UK Version
VR6250(Ve)

9.5. Test Point Location


TPVSET
TPVBK
Panel Label
TPVSUS
TPVDA
C1
C2
C3
SS2
SU
P
D
PB
SC
SS
TPSC1
J
SD
HB
HB
HA
HX
SS3
H3
H3
C6
C5
C4
V1
S1
TPVAD
TPVSCN
BK/EK Version
UK Version
TPVE

10. Service mode

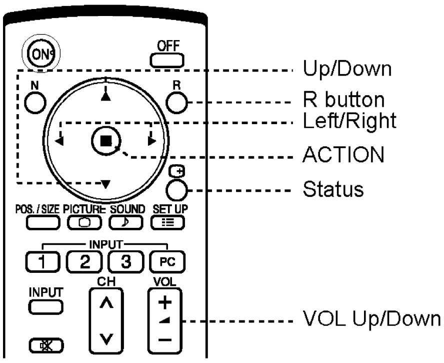
10.1. CAT (computer Aided Test) mode

CAT mode menu

CAT Panel sys8.2
IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID Mode	Not use	-----

Remote control


ON
OFF
N
R
POS./SIZE
PICTURE
SOUND
SET UP
INPUT
1
2
3
PC
INPUT
CH
VOL
Up/Down
R button
Left/Right
ACTION
Status
VOL Up/Down

How to access the CAT mode.

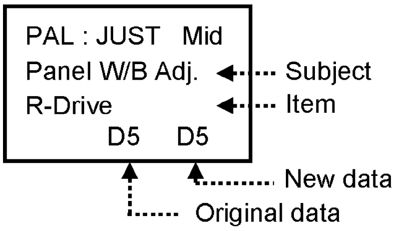
Press and the hold the **Volume down / - button** on the front panel of the unit and press the **status button** on the remote control 3 times quickly within 2 seconds, this will place the unit into the CAT mode.

To exit the CAT mode, access the ID mode and switch off the main power.

10.1.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode and then press the Action button on the remote control.

OSD


PAL : JUST Mid
Panel W/B Adj.
R-Drive
D5 D5
Subject
Item
New data
Original data

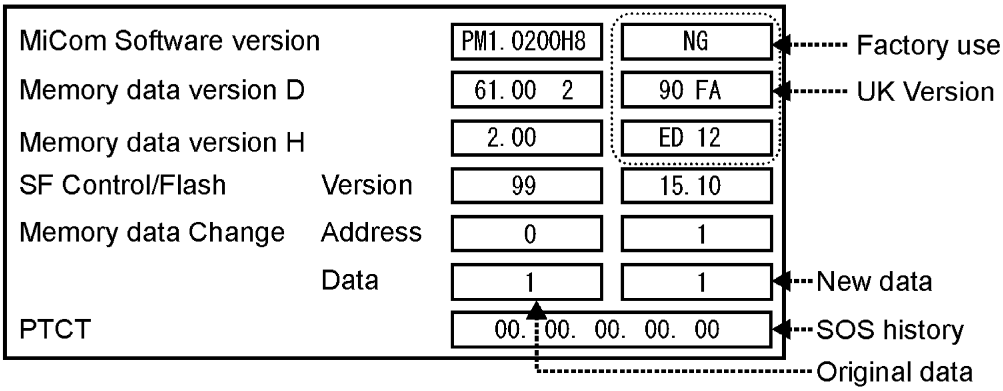
How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2. Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on “IIC mode structure”.
To exit the IIC mode, press the R button on the remote control.

10.1.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode and then press the Mute button on the remote control more than 5 seconds.



MiCom Software version PM1.0200H8 NG

Memory data version D 61.00 2 90 FA

Memory data version H 2.00 ED 12

SF Control/Flash Version 99 15.10

Memory data Change Address 0 1

Data 1 1

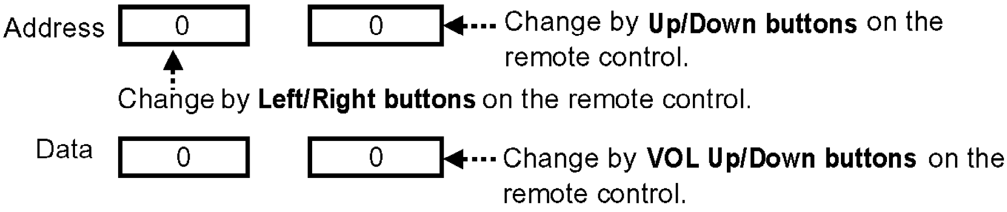
PTCT 00. 00. 00. 00. 00

Micom software version (IC9702), this version can be upgrade by

1. replace of new version IC

2. Loading the new version software from loader tool, TZSC07036.

Memory data change



Address 0 0

Change by **Up/Down buttons** on the remote control.

Change by **Left/Right buttons** on the remote control.

Data 0 0

Change by **VOL Up/Down buttons** on the remote control.

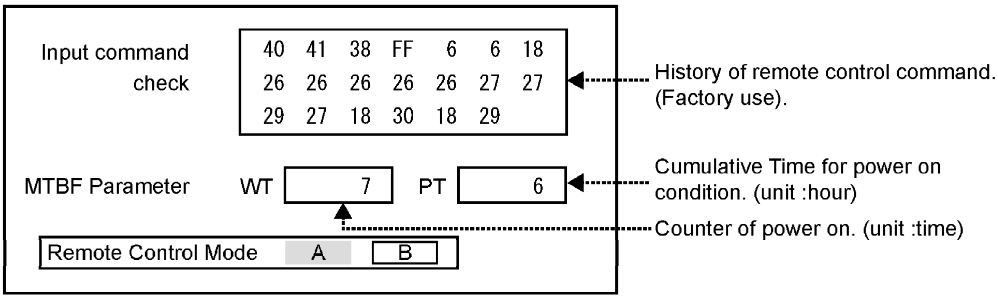
The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

10.1.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode and then press the Action button on the remote control.

OSD



Input command check

40	41	38	FF	6	6	18
26	26	26	26	26	27	27
29	27	18	30	18	29	

MTBF Parameter WT 7 PT 6

Remote Control Mode A B

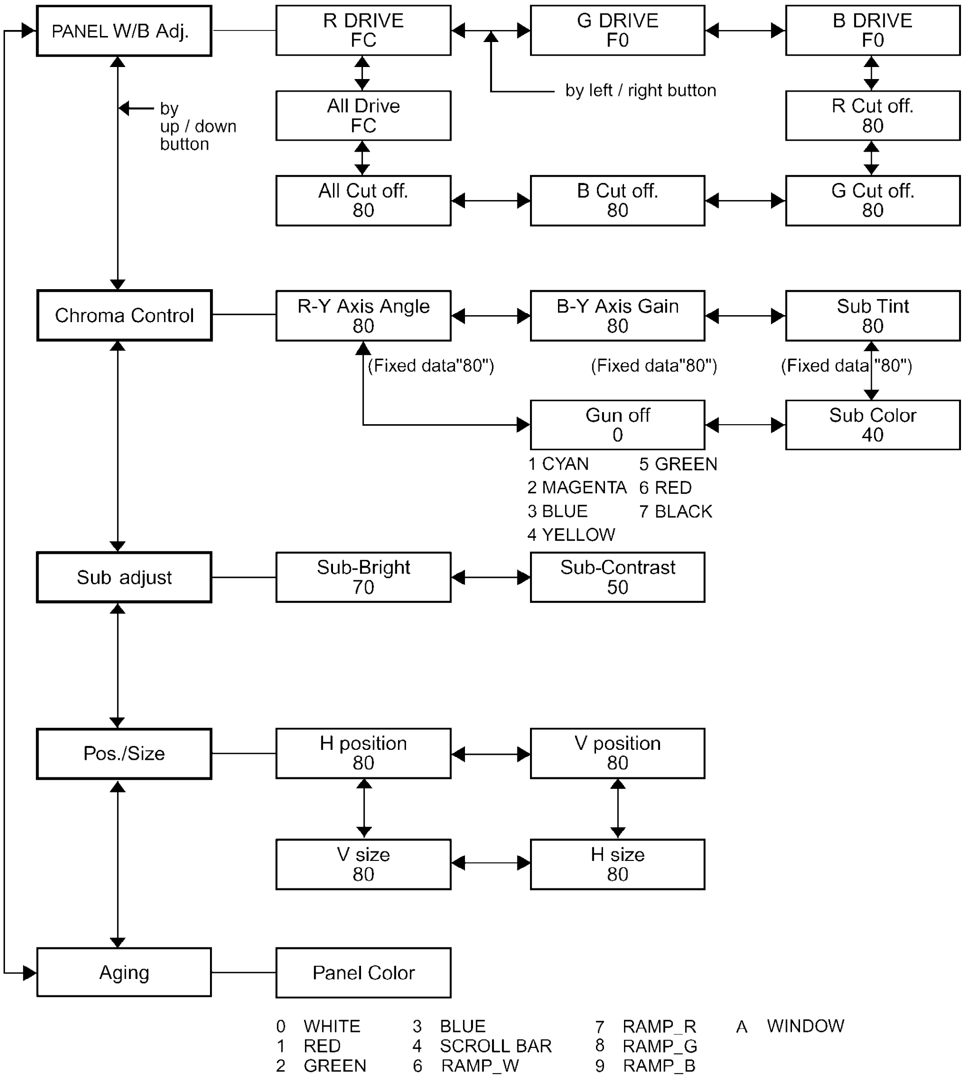
History of remote control command. (Factory use).

Cumulative Time for power on condition. (unit :hour)

Counter of power on. (unit :time)

To exit the SD mode, press the R button on the remote control.

10.2. IIC mode structure (following items value is sample data.)


PANEL W/B Adj.
R DRIVE FC
G DRIVE F0
B DRIVE F0
by left / right button
by up / down button
All Drive FC
R Cut off. 80
All Cut off. 80
B Cut off. 80
G Cut off. 80
Chroma Control
R-Y Axis Angle 80
B-Y Axis Gain 80
Sub Tint 80
(Fixed data"80")
(Fixed data"80")
(Fixed data"80")
Gun off 0
Sub Color 40
1 CYAN
2 MAGENTA
3 BLUE
4 YELLOW
5 GREEN
6 RED
7 BLACK
Sub adjust
Sub-Bright 70
Sub-Contrast 50
Pos./Size
H position 80
V position 80
V size 80
H size 80
Aging
Panel Color
0 WHITE
1 RED
2 GREEN
3 BLUE
4 SCROLL BAR
6 RAMP_W
7 RAMP_R
8 RAMP_G
9 RAMP_B
A WINDOW

These are selected by Action button of Remote and press the R button to exit.

11. Alignment

11.1. PC / RGB panel white balance

11.2. HD / 525ip / 625ip panel white balance

12. Trouble shooting guide

12.1. Self Check

12.1.1. Display Indication

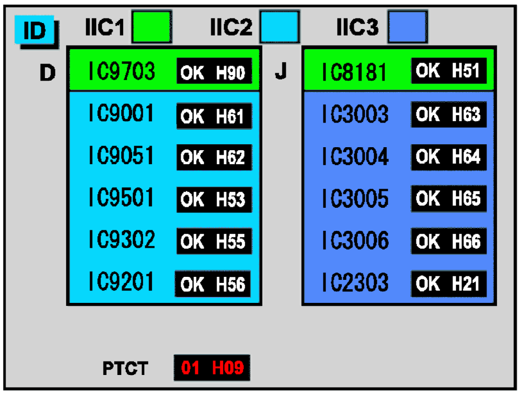
1. **Self-check is used to automatically check the bus line controlled circuit of the Plasma display.**
2. **To get into the Self-check mode, press the volume down button on the customer controls at the bottom of the set, at the same**

time pressing the OFF-TIMER button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect
Or not located then " - - " will appear in place of " OK "
“ 01 “ in the line of the “ PTCT ” means the number of blinks of the Power LED is 1. (Reference to 12.1.2)
“ H09 “ in the line of the “ PTCT ” is the error code.

Note:

The line of the “ PTCT ” displays when you get into the Self-check mode for the first time only after the Power LED blinks.



ID	IIC1 🟩		IIC2 🟦	IIC3 🟦	
D	IC9703	OK H90	J	IC8181	OK H51
	IC9001	OK H61		IC3003	OK H63
	IC9051	OK H62		IC3004	OK H64
	IC9501	OK H53		IC3005	OK H65
	IC9302	OK H55		IC3006	OK H66
	IC9201	OK H56		IC2303	OK H21

PTCT 01 H09

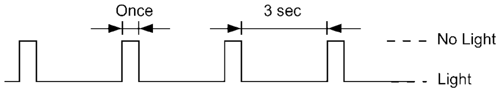
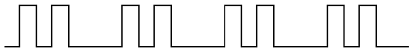
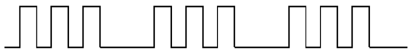
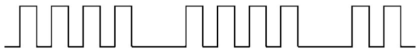
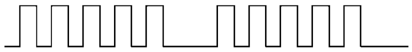
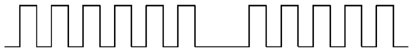
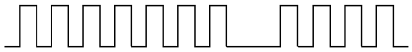
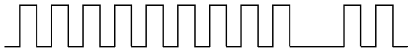
12.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Blinking timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1	 Once 3 sec No Light Light	Data SOS
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
9		SUS Driver

3. Remarks

Above Fan function is operated during the fans are installed.

12.2. No Power

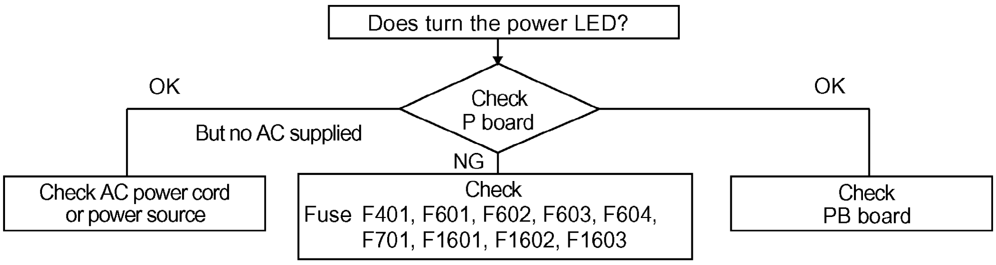
[First check point]

1. No lit.

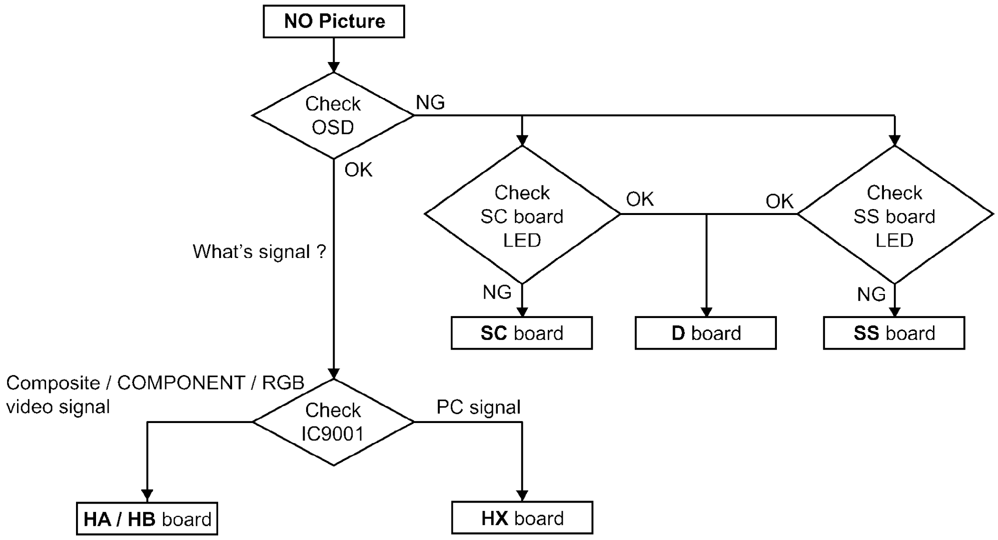
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

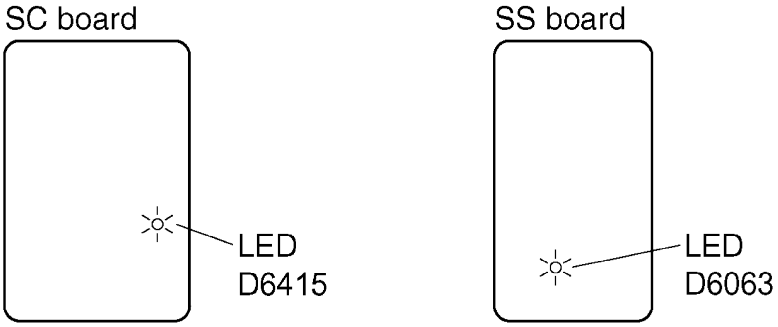
1. No lit.


Does turn the power LED?
Check P board
OK
But no AC supplied
OK
NG
Check AC power cord or power source
Check Fuse F401, F601, F602, F603, F604, F701, F1601, F1602, F1603
Check PB board

12.3. No Picture


NO Picture
Check OSD
NG
OK
What's signal ?
Check SC board LED
OK
NG
SC board
D board
OK
Check SS board LED
NG
SS board
Composite / COMPONENT / RGB video signal
Check IC9001
PC signal
HA / HB board
HX board

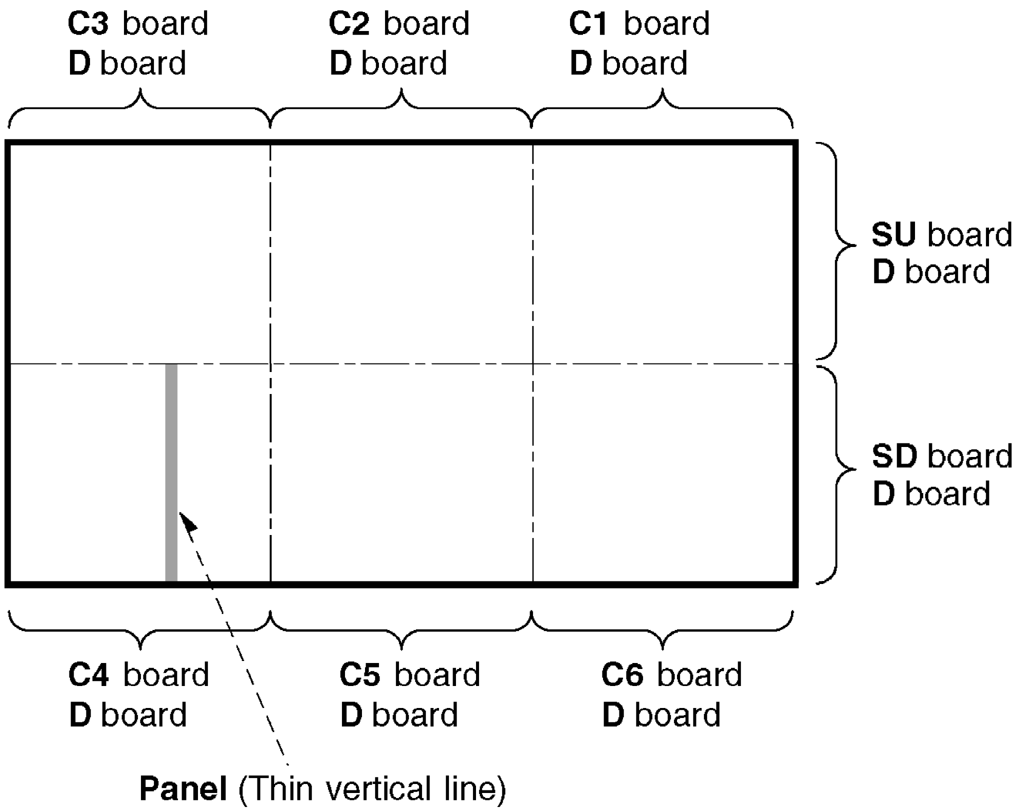
Drive circuits LED indicator


SC board
LED
D6415
SS board
LED
D6063

12.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1

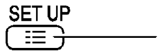

C3 board
D board
C2 board
D board
C1 board
D board
SU board
D board
SD board
D board
C4 board
D board
C5 board
D board
C6 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

13. Option Setting

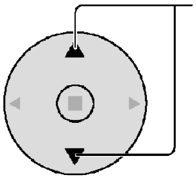
How to access the Option menu

1

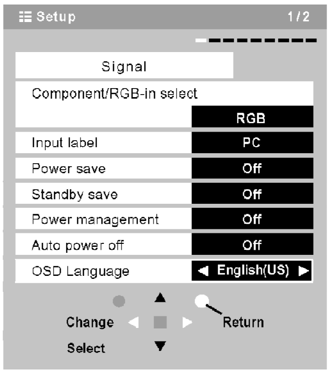


Press to display the Setup menu.

2

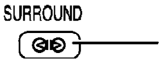


Press to select “OSD Language”.



Signal	
Component/RGB-in select	RGB
Input label	PC
Power save	Off
Standby save	Off
Power management	Off
Auto power off	Off
OSD Language	◀ English(US) ▶

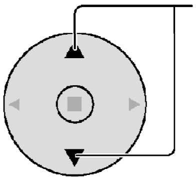
3



Press and hold until the Options menu is displayed.

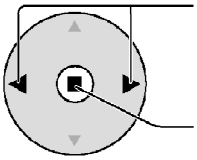
Setting the Option menus

1



Press to select your preferred menu.

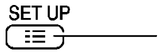
2



Press to adjust the menu.

Press to confirm.

3



Press to exit from Options menu.

Option Menu for GPH8D series

GPH8D chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
Onscreen display	On	Enable/Disable to display input mode indication a power on and no signal indication.
Initial INPUT	Off	Sets the initial input mode when the power is turn Allow input mode selection while power is on.
Initial VOL level	Off	Sets the initial volume level when the power is tur Allow Volume control while power is on.
Maximum VOL Level	Off	Sets the maximum volume to desired level. Volum cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or P not change input mode by input selection key.
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Advanced PIP	Off	Off : Sets normal two screen display mode. On : Sets Advanced PIP mode.
Display size	Off	Adjusts the image display size on screen. On : Sets the image display size approximately 95 normal image display.
Button lock	Off	Enable/Disable bottom operation buttons (Input, M Enter and/or volume up/down)
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Inpu input, Status, Surround, Sound mute On/Off, and adjustment. User2 : Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID select	0	Set ID number from 0 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote functio not control the unit.)
Serial ID	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode while the power is turne Allow Optional Terminal Board insert Slots while on.
V. Installation	Off	V. Installation function On/Off This mode is available for TH-65PHD8BK/EK/UK. Note: Turn up the power switch for the upward di when you set display vertically.
Rotate	Off	The image rotates 180 degrees (up-down)

Note :
When both main unit buttons and remote control are disabled due to the “Button lock”, “Remocon User level” or “RemoteID” adjustments, set all the values “Off” so that all the buttons are enabled again.

Press the “Volume down” button on main unit together with “R“ button on the remote control and hold for more than 5 seconds. The “SHIPPING” menu is displayed and the lock is released when it disappears.

14. Circuit Board Layout

14.1. P-Board (P-1), (P-2)

P(P-1) BOARD FOIL SIDE

P(P-1) BOARD COMPONENT SIDE

P(P-2) BOARD FOIL SIDE

P(P-2) BOARD COMPONENT SIDE

14.2. PB-Board

14.3. HA-Board

14.4. HB-Board

14.5. HX-Board

14.6. J-Board

FOIL SIDE

COMPONENT SIDE

14.7. D-Board

FOIL SIDE

COMPONENT SIDE

14.8. C1-Board

14.9. C2-Board

14.10. C3-Board

14.11. C4-Board

14.12. C5-Board

14.13. C6-Board

14.14. SC-Board

FOIL SIDE

PARTS LOCATION

COMPONENT SIDE

14.15. SU-Board

14.16. SD-Board

14.17. SS-Board

FOIL SIDE

PARTS LOCATION

COMPONENT SIDE

14.18. SS2 and SS3-Board

14.19. H3, S1 and V1-Board

15. Schematic Diagrams

15.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .... AC120V, 50/60Hz (UK)
   AC220-240V, 50/60Hz (BK/EK)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.

8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

TH-65PHD8 SERIES
Schematic Diagram Notes

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.

TH-65PHD8 SERIES
Schematic Diagram Notes

15.2. Main Block Diagram

15.3. P-Board (1 of 2)Block Diagram

15.4. P-Board (2 of 2)Block Diagram

15.5. P-Board (1 of 3) Schematic Diagram

15.6. P-Board (2 of 3) Schematic Diagram

15.7. P-Board (3 of 3) Schematic Diagram

15.8. PB and V1-Board Block and Schematic Diagram

15.9. HA-Board Block and Schematic Diagram

15.10. HB-Board Block Diagram

15.11. HB-Board (1 of 2) Schematic Diagram

15.12. HB-Board (2 of 2) Schematic Diagram

15.13. HX-Board Block and Schematic Diagram

15.14. J-Board (1 of 2) and H3-Board Block Diagram

15.15. J-Board (2 of 2) Block Diagram

15.16. J-Board (1 of 4) and H3-Board Schematic Diagram

15.17. J-Board (2 of 4) Schematic Diagram

15.18. J-Board (3 of 4) Schematic Diagram

15.19. J-Board (4 of 4) Schematic Diagram

15.20. D-Board (1 of 2) Block Diagram

15.21. D-Board (2 of 2) Block Diagram

15.22. D-Board (1 of 12) Schematic Diagram

15.23. D-Board (2 of 12) Schematic Diagram

15.24. D-Board (3 of 12) Schematic Diagram

15.25. D-Board (4 of 12) Schematic Diagram

15.26. D-Board (5 of 12) Schematic Diagram

15.27. D-Board (6 of 12) Schematic Diagram

15.28. D-Board (7 of 12) Schematic Diagram

15.29. D-Board (8 of 12) Schematic Diagram

15.30. D-Board (9 of 12) Schematic Diagram

15.31. D-Board (10 of 12) Schematic Diagram

15.32. D-Board (11 of 12) Schematic Diagram

15.33. D-Board (12 of 12) Schematic Diagram

15.34. C1, C2, C5 and C6-Board Block Diagram

15.35. C2, C3, C4 and C5-Board Block Diagram

15.36. C1-Board (1 of 2) Schematic Diagram

15.37. C1-Board (2 of 2) Schematic Diagram

15.38. C2-Board (1 of 2) Schematic Diagram

15.39. C2-Board (2 of 2) Schematic Diagram

15.40. C3-Board (1 of 2) Schematic Diagram

15.41. C3-Board (2 of 2) Schematic Diagram

15.42. C4-Board (1 of 2) Schematic Diagram

15.43. C4-Board (2 of 2) Schematic Diagram

15.44. C5-Board (1 of 2) Schematic Diagram

15.45. C5-Board (2 of 2) Schematic Diagram

15.46. C6-Board (1 of 2) Schematic Diagram

15.47. C6-Board (2 of 2) Schematic Diagram

15.48. SC, SU and SD-Board Block Diagram

15.49. SC-Board (1 of 3) Schematic Diagram

15.50. SC-Board (2 of 3) Schematic Diagram

15.51. SC-Board (3 of 3) Schematic Diagram

15.52. SU-Board (1 of 2) Schematic Diagram

15.53. SU-Board (2 of 2) Schematic Diagram

15.54. SD-Board (1 of 2) Schematic Diagram

15.55. SD-Board (2 of 2) Schematic Diagram

15.56. SS, S1, SS2 and SS3-Board Block Diagram

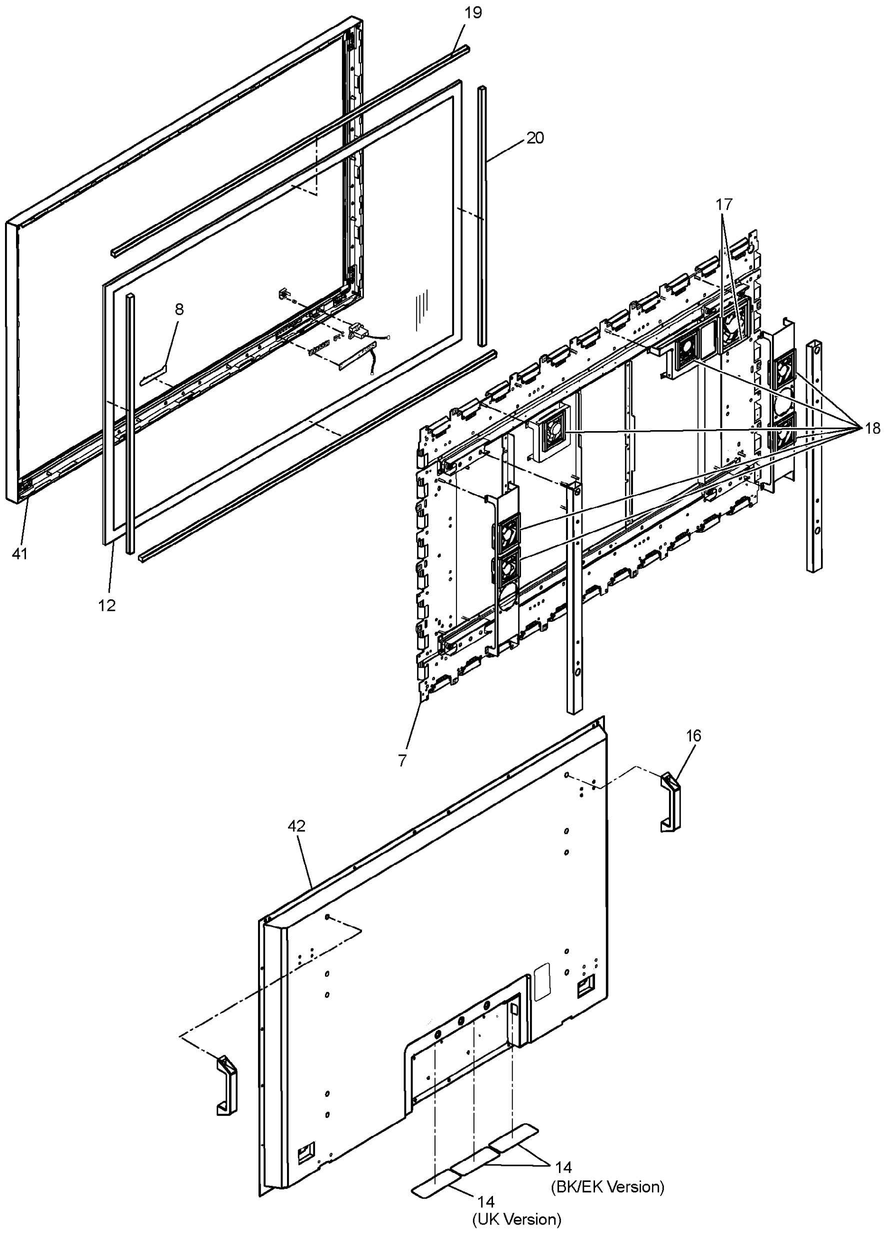
15.57. SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram

15.58. SS-Board (2 of 2) Schematic Diagram

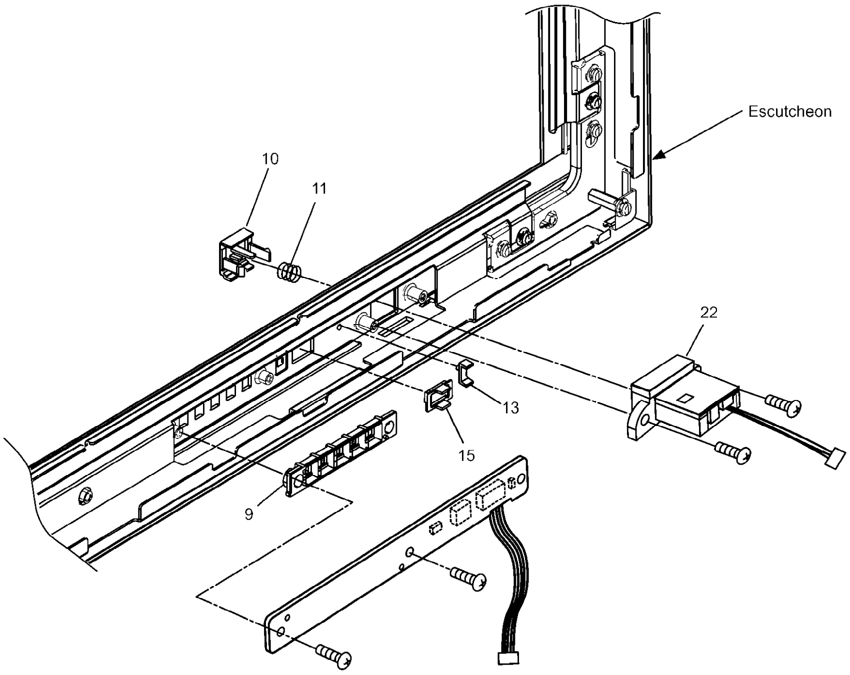
16. Parts Location

16.1. Exploded View

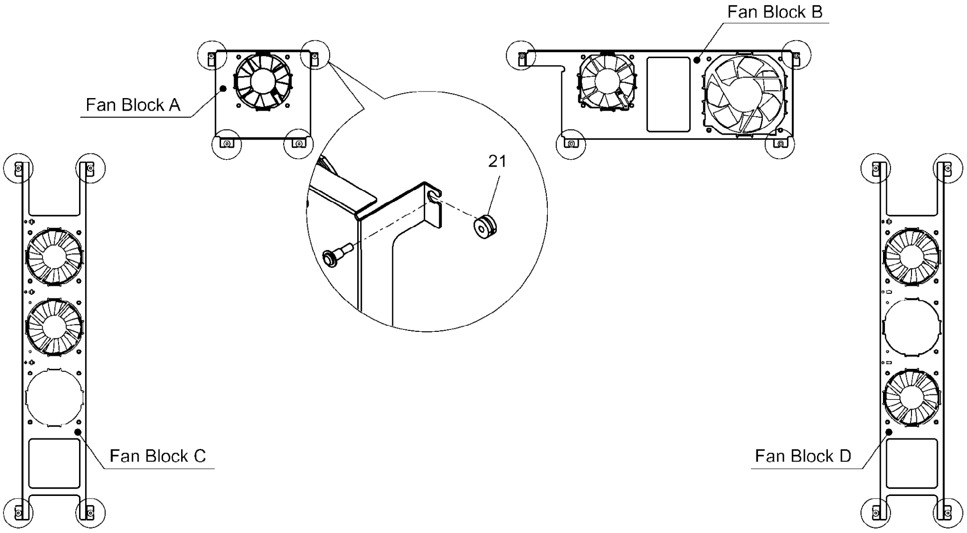
16.1.1. The main mechanical parts relation


19
20
17
8
18
41
12
7
16
42
14
(BK/EK Version)
14
(UK Version)

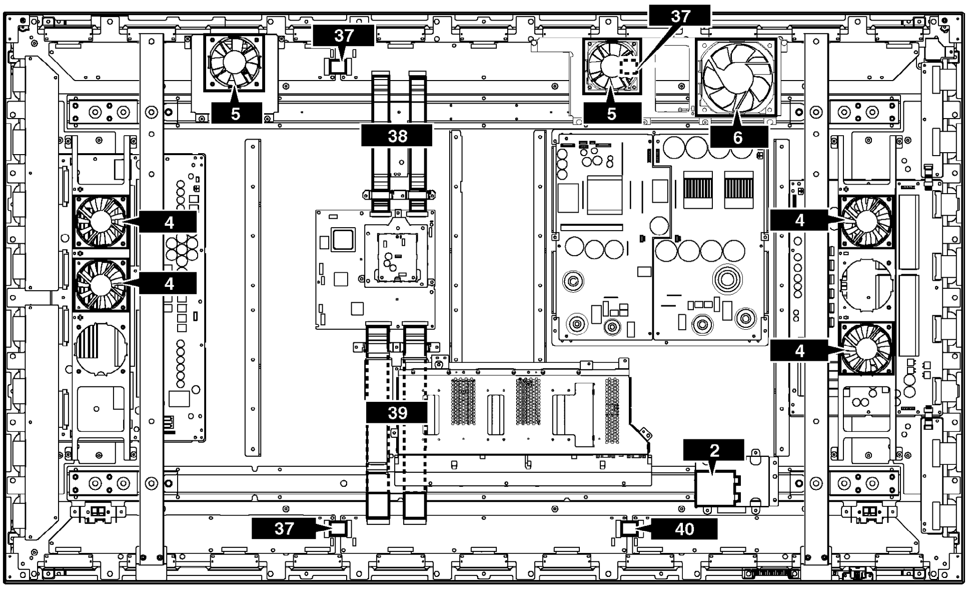
16.1.2. Escutcheon part location enlarged view


Escutcheon
10
11
22
13
15
9

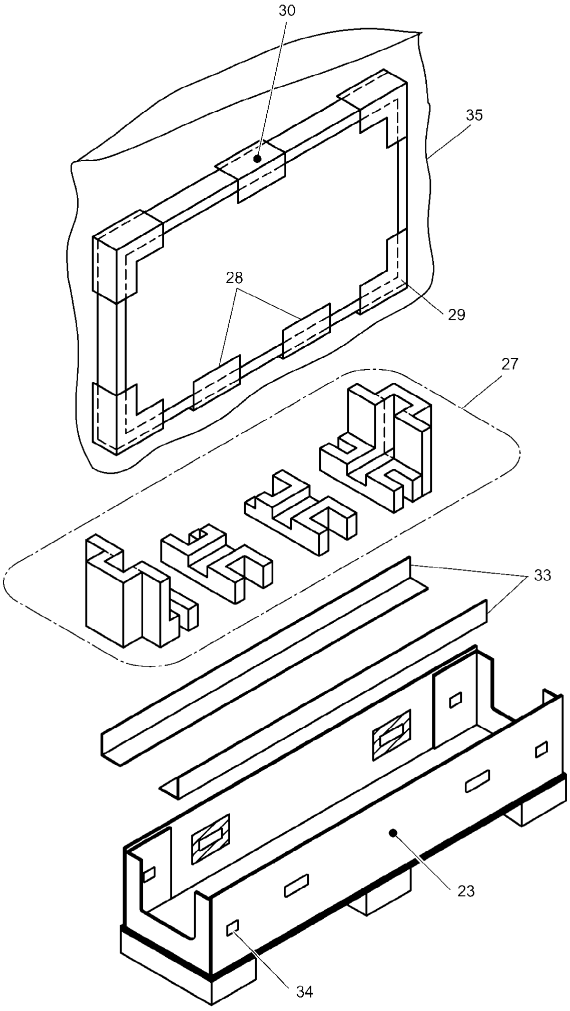
16.1.3. Fan part location enlarged view

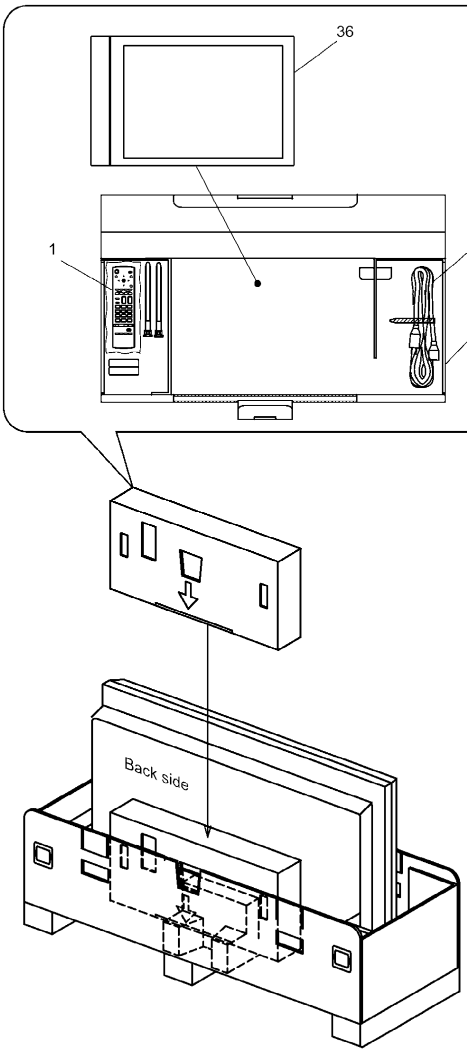

Fan Block B
Fan Block A
21
Fan Block C
Fan Block D

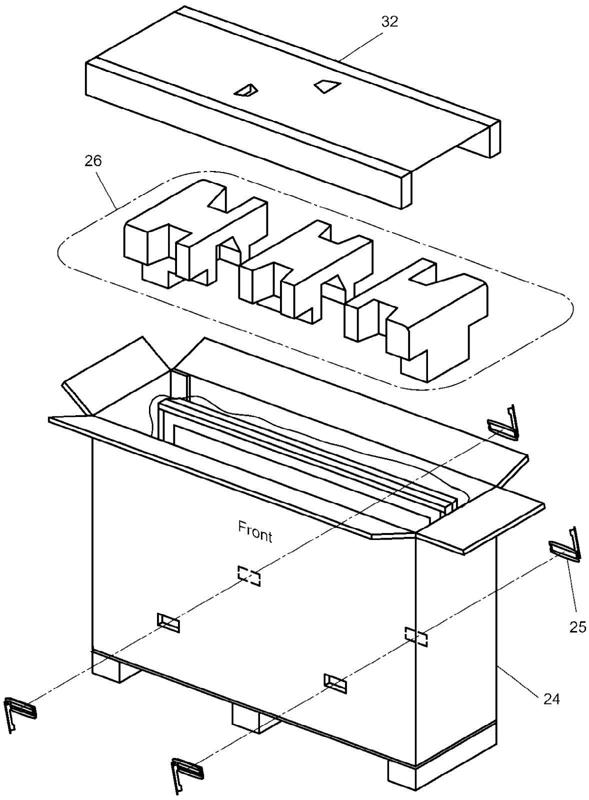
16.2. Cable relation


37
37
5
5
6
38
4
4
4
4
39
2
37
40

16.3. Packing summary


30
35
28
29
27
33
23
34


Back side



17. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EUR7636070R	REMOTE CONTROLLER	1	UK
1	EUR7636090R	REMOTE CONTROL	1	BK/EK
	J0KD00000095	FLAT CORE	2	
	J0KD00000096	FLAT CORE	2	
	J0KG00000011	NOISE FILTER	2	
	K1YD68000002	68P CONNECTOR	2	
2	K2AH3H000039	AC INLET	1	⚠
3	K2CG3DH00025	AC CORD	1	UK ⚠
3	K2CN3DH00006	AC CORD	1	EK ⚠
3	K2CT3DH00025	AC CORD (B/H)	1	BK ⚠
4	L6FALCEH0004	FAN (SC/SS)	4	
5	L6FALEFH0028	FAN (MIDDLE)	2	
6	L6FAPEHH0006	FAN (BIG)	1	
7	MD65H08A1J	PLASMA DISPLAY PANEL	1	⚠
8	TBMA165	PANASONIC BADGE	1	
9	TBXA38902	HINGE BUTTON	1	
10	TBXA44801	POWER BUTTON	1	
11	TESD031	SPRING	1	
12	TKGA5178-2T	FRONT GLASS	1	
13	TKKC5105	LED PANEL	1	
14	TKKL5266	COVER	2	BK/EK
14	TKKL5266	COVER	1	UK

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
15	TKPA60301	REMOCON RECEIVER PANEL	1	
16	TKRA45301	HANDLE	2	
17	TMKG405	SPONGE (FAN BIG)	2	
18	TMKG469-1	SPONGE (FAN)	6	
19	TMKG572	CUSHION (TOP/BOTTOM)	2	
20	TMKG573	CUSHION (RIGHT/LEFT)	2	
21	TMMJ068	RUBBER (FAN)	16	
	TMMX064-2	SPACER (A)	20	
	TMMX070	SPACER (C)	20	
	TMMX095	BRACKET	2	
22	TMWC014	POWER BUTTON BRACKET	1	
23	TPCB66101	CARTON BOX (BOTTOM)	1	
24	TPCB83802	CARTON BOX (TOP)	1	UK ⚠
24	TPCB83806	CARTON BOX (TOP)	1	EK ⚠
24	TPCB83807	CARTON BOX (TOP)	1	BK ⚠
25	TPD169487	JOINT (BIG)	4	
26	TPDA1035	CUSHION (TOP/LEFT/ IN/RIGHT)	1	
27	TPDA1036	CUSHION (BOTTOM/LEFT/IN)	1	
28	TPDA1038	CUSHION (CENTER)	2	
29	TPDA1153	CUSHION (CORNER)	4	
30	TPDA1154	CUSHION (CENTER/TOP)	1	
31	TPDF0737	PAPER BOX	1	
32	TPDF1306	CUSHION (TOP)	1	
33	TPDF1408	CUSHION (L)	2	
34	TPDX0007	JOINT (SMALL)	4	
35	TPEH246	PROTECTION COVER	1	
36	TQBC2033	INSTRUCTION BOOK (ENGLISH)	1	UK ⚠
36	TQBC2034	INSTRUCTION BOOK (SPANISH)	1	UK ⚠
36	TQBC2035	INSTRUCTION BOOK (FRENCH)	1	UK ⚠
36	TQBC2059	INSTRUCTION BOOK (ENGLISH)	1	EK ⚠
36	TQBC2060	INSTRUCTION BOOK (GERMAN)	1	EK ⚠
36	TQBC2061	INSTRUCTION BOOK (FRENCH)	1	EK ⚠
36	TQBC2062	INSTRUCTION BOOK (ITALIAN)	1	EK ⚠
36	TQBC2063	INSTRUCTION BOOK (SPANISH)	1	EK ⚠
36	TQBC2064	INSTRUCTION BOOK (DUTCH)	1	EK ⚠
36	TQBC2065	INSTRUCTION BOOK (DANISH)	1	EK ⚠
36	TQBC2066	INSTRUCTION BOOK (SWEDISH)	1	EK ⚠
36	TQBC2067	INSTRUCTION BOOK (ENGLISH)	1	BK ⚠
	TQEF035	POLY BAG	1	
	TQZH337	INSTRUCTION SHEET	1	UK
37	TSXL450	CABLE(C10-C20/C21-C31/C50-C60)	3	
38	TSXL478	CABLE(D31-C24/D32-C25)	2	
39	TSXL479	CABLE(D33-C54/D34-C55)	2	
40	TSXL480	CABLE(C41-C51)	1	
41	TTEA0309	ESCUTCHEON ASSY	1	
42	TTUA1256	REAR COVER	1	UK ⚠
42	TTUA1260	REAR COVER	1	EK ⚠
42	TTUA1261	REAR COVER	1	BK ⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TXJSPL0YUS-1	SPEAKER LEAD (LEFT)	1	
	TXJSPR0YUS-1	SPEAKER LEAD (RIGHT)	1	
	XZBT6506	POLY BAG	1	
	TMM15414-2	CLAMPER	1	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	6	
	TMM6463-1	CLAMPER	1	
	TMM6496-1	CLAMPER	2	
	TMM7464-2	CLAMPER	5	
	TMM7468-1	CLAMPER	1	
	TMME002	CLAMPER	1	
	TMME047	CLAMPER	1	
	TMME061	CLAMPER	3	
	TMME152	CLAMPER	4	
	TMME185	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME190	CLAMPER	2	
	TMME199	CLAMPER	1	
	TMME226	CLAMPER	2	
	TMME228	CLAMPER	2	
	THEA068N	SCREW	4	
	THEA130N	SCREW	4	
	THEL0239	SCREW	18	
	THEL027N	SCREW	20	BK/EK
	THEL027N	SCREW	24	UK
	THEL035N	SCREW	173	
	THNG005J	NUT	2	
	THTD010N	SCREW	20	
	XTS3+10JFJ	SCREW	1	
	XTV3+10JFJ	SCREW	2	BK/EK
	XTV3+10JFJ	SCREW	4	UK
	XTW3+8TFJ	SCREW	6	
	XYC3+JF12FJ	SCREW	5	BK/EK
	XYC3+JF12FJ	SCREW	4	UK
	XYN3+F10FJ	SCREW	3	
	XYN3+F12FJ	SCREW	4	
	XYN3+F8FJ	SCREW	6	
	XYN3+J12FJ	SCREW	61	
	XYN4+E8FJ	SCREW	1	
	XYN4+F10FJ	SCREW	42	
	XYN4+F20FJ	SCREW	25	
	XYN4+F32FJ	SCREW	4	
	XYN4+F38FJK	SCREW	20	
	XYN8+F20FJK	SCREW	12	
	XYN8+F30FJK	SCREW	12	

18. Replacement Parts List

18.1. Relpacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon F : Fuse M : Metal Oxide Metal FIlm S : Solid W : Wire Wound	F : ±1% G : ±2% J : ±5% K : ±10% M : ±20%

Type	Allowance
C : Ceramic E : Electrolytic P : Polyester Polypropylene T : Tantalum	C : ±0.25pF D : ±0.5pF F : ±1pF G : ±3pF J : ±5pF K : ±10pF L : ±15pF M : ±20pF P : +100%, -0% Z : +80%, -20%

18.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F401	HU216002BP	CARTRIDGE FUSE	1	
F601,02	K5D103BMA001	TIME LAG FUSE HIGH	2	⚠
F603,04	HU216005BP	CARTRIDGE FUSE	2	
F701	HU216002BP	CARTRIDGE FUSE	1	
F1601,02	K5D402BNA007	TIME LAG FUSE HIGH	2	⚠
F1603	K5D102BNA007	TIME LAG FUSE HIGH	1	⚠
A601,02	RA362MSV7	ARRESTOR	2	⚠
C10	K1MN50BA0076	50P CONNECTOR	1	
C11	K1KA06BA0107	6P CONNECTOR	1	
C20,21	K1MN50BA0076	50P CONNECTOR	2	
C22,23	K1KA06BA0107	6P CONNECTOR	2	
C24,25	K1MN55BA0076	55P CONNECTOR	2	
C31	K1MN50BA0076	50P CONNECTOR	1	
C33	K1KA06BA0107	6P CONNECTOR	1	
C35	K1KA10AA0153	10P CONNECTOR	1	
C41	K1MN55BA0076	55P CONNECTOR	1	
C42	K1KA10AA0153	10P CONNECTOR	1	
C43	K1KA06BA0107	6P CONNECTOR	1	
C44	K1KA20AA0009	20P CONNECTOR	1	
C50	K1MN50BA0076	50P CONNECTOR	1	
C51	K1MN55BA0076	55P CONNECTOR	1	
C52,53	K1KA06BA0107	6P CONNECTOR	2	
C54,55	K1MN68BA0076	68P CONNECTOR	2	
C60	K1MN50BA0076	50P CONNECTOR	1	
C61	K1KA06BA0107	6P CONNECTOR	1	
C332	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C341	RR3AD332K	CERAMIC CAPACITOR	1	
C353	KMQ220901Z	ELECTROLYTIC CAPACITOR	1	
C356	TAB104K2E	CERAMIC CHIP CAPACITOR	1	
C359	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C360,61	KMQ220901Z	ELECTROLYTIC CAPACITOR	2	
C362-65	RR3DD221K	CERAMIC CAPACITOR	4	
C367	KMQ220901Z	ELECTROLYTIC CAPACITOR	1	
C369	TAB104K2E	CERAMIC CHIP CAPACITOR	1	
C370	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C401	KZE1J470	ELECTROLYTIC CAPACITOR	1	
C410	ECWH8183HVB	PLASTIC FILM CAPACITOR	1	
C411	TAB475K2	CERAMIC CHIP CAPACITOR	1	
C412	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C451	KZE1E182S	ELECTROLYTIC CAPACITOR	1	
C452	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C454,55	ECJ3YB1E225K	C 2.2UF, K, 25V	2	
C457	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C458	ECJ3YB1E105K	C 1UF, K, 25V	1	
C459	KZE1E821L	ELECTROLYTIC CAPACITOR	1	
C460	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C461	KZE1E471L	ELECTROLYTIC CAPACITOR	1	
C462	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C463	KZE1E182S	ELECTROLYTIC CAPACITOR	1	
C465	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C466-69	ECJ2FB1H104K	C 0.1UF, K, 50V	4	

[illegible]	ECJ2FB1H104K	C 0.1uF, K, 50V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C471	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C472	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C473	ECJ3YB1E225K	C 2.2UF, K, 25V	1	
C601	ECQU2A105ML	PLASTIC FILM CAPACITOR	1	⚠
C603,04	CD221K	CERAMIC CAPACITOR	2	⚠
C606	ECQU2A224ML	PLASTIC FILM CAPACITOR	1	⚠
C609	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C610,11	MMXC2W105K	PLASTIC FILM CAPACITOR	2	
C612	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C613	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C614	KZE1H560	ELECTROLYTIC CAPACITOR	1	
C622	ECQE6104KF	P 0.1UF, K,630V	1	
C623,24	KMQ2W221L	ELECTROLYTIC CAPACITOR	2	
C625	TBB474K2	CERAMIC CHIP CAPACITOR	1	
C626	KMQ2W221L	ELECTROLYTIC CAPACITOR	1	
C627	ECQE6472B45	PLASTIC FILM CAPACITOR	1	
C628	KX101K	CERAMIC CAPACITOR	1	⚠
C629	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C630	KMQ2W221L	ELECTROLYTIC CAPACITOR	1	
C633	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C634	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C701	KZE1J470	ELECTROLYTIC CAPACITOR	1	
C710	ECJ3YB1E475K	C 4.7UF, K, 25V	1	
C711	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C712	ECWH8273HVB	PLASTIC FILM CAPACITOR	1	
C713	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C715-17	KZE2A331L	ELECTROLYTIC CAPACITOR	3	
C719,20	TCR224K2E	CERAMIC CHIP CAPACITOR	2	
C801,02	EEVHB1C471	E 470UF, 16V	2	
C804	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C805	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C806	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C807	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C808	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C809	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C811,12	EEVHB1C471	E 470UF, 16V	2	
C814	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C815	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C816	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C817	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C818	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C819	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C820	ECJ2XC1H820J	C 82PF, J, 50V	1	
C821	F2H0J102A010	C 1000UF, 6.3V	1	
C822	EEVHB1C471	E 470UF, 16V	1	
C824	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C825	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C826	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C827	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C828	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C829	F1J0J1060004	C 0.010UF, K, 16V	1	
C830	ECJ2XC1H820J	C 82PF, J, 50V	1	
C831	EEEHB1C470P	C 47PF, J, 16V	1	

[illegible]	[illegible]	[illegible]	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C832	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C833	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C834	EEEHB1C470P	C 47PF, J, 16V	1	
C835	F1J0J1060004	C 0.010UF, K, 16V	1	
C836	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C837	F1J0J1060004	C 0.010UF, K, 16V	1	
C838	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C839	F1J0J1060004	C 0.010UF, K, 16V	1	
C840	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C841	F1J0J1060004	C 0.010UF, K, 16V	1	
C842	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C843	F1J0J1060004	C 0.010UF, K, 16V	1	
C844	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C845	F1J0J1060004	C 0.010UF, K, 16V	1	
C846	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C847	F1J0J1060004	C 0.010UF, K, 16V	1	
C848	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C850	ECQB1H104JF	P 0.1UF, J, 50V	1	
C852	ECA1EM471	E 470UF, 25V	1	
C854	EEUFC1C471	E 470UF, 16V	1	
C901	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C902	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C903	KMQ2W221L	ELECTROLYTIC CAPACITOR	1	
C904	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C905	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C906	KZE1H101	ELECTROLYTIC CAPACITOR	1	
C907	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C908	KX101K	CERAMIC CAPACITOR	1	⚠
C910	KZE1H101	ELECTROLYTIC CAPACITOR	1	
C951	KZE1E471L	ELECTROLYTIC CAPACITOR	1	
C952	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C953	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C954	KZE1E101	ELECTROLYTIC CAPACITOR	1	
C956	TBB105K1	CERAMIC CHIP CAPACITOR	1	
C957	KZE1A471	ELECTROLYTIC CAPACITOR	1	
C958,59	ECJ2FB1H104K	C 0.1UF, K, 50V	2	
C1530	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C1601	ECQU2A474ML	PLASTIC FILM CAPACITOR	1	⚠
C1603,04	CD221K	CERAMIC CAPACITOR	2	⚠
C1606	ECQU2A224ML	PLASTIC FILM CAPACITOR	1	⚠
C1610,11	MMXC2W105K	PLASTIC FILM CAPACITOR	2	
C1622	ECQE6104KF	P 0.1UF, K,630V	1	
C1623,24	KMQ2W161K	ELECTROLYTIC CAPACITOR	2	
C1625	TBB474K2	CERAMIC CHIP CAPACITOR	1	
C1627	ECQE6472B45	PLASTIC FILM CAPACITOR	1	
C1628	CD221K	CERAMIC CAPACITOR	1	⚠
C1629	KZE1E470	ELECTROLYTIC CAPACITOR	1	
C1630	ECQU2A473ML	PLASTIC FILM CAPACITOR	1	⚠
C1631	KMQ2W161K	ELECTROLYTIC CAPACITOR	1	
C1633	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C1634	ECJ2FB1E224K	C 22UF, K, 25V	1	
C1635	ECJ2XB1H103K	C 0.01UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2350,51	ECJ3YB1C225K	C 0.022UF, K, 16V	2	
C2352,53	EEEHB1H100P	C 10PF, J, 50V	2	
C2354,55	EEEHB1V470P	E 47UF, 35V	2	
C2356,57	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2358,59	EEEHP1V2R2R	E 2.2UF, 35V	2	
C2360,61	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2362,63	EEEHB1E471UP	C 470PF, J, 25V	2	
C2364,65	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2366,67	ECJ3YB1E225K	C 2.2UF, K, 25V	2	
C2368,69	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2370,71	EEEHB1V470P	E 47UF, 35V	2	
C2373-75	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C2376,77	ECJ1XC1H150J	C 15PF, J, 50V	2	
C2378-82	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C2383	EEEHB1A101P	C 100PF, J, 10V	1	
C2384	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2385	EEEHB1A101P	C 100PF, J, 10V	1	
C2386,87	EEEHP1H1R0R	C 1.0PF, J, 50V	2	
C2388	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2389	EEEHB1A101P	C 100PF, J, 10V	1	
C2390	EEEHB1H100P	C 10PF, J, 50V	1	
C2391	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2392,93	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2394	EEEHB1H100P	C 10PF, J, 50V	1	
C2395,96	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C2397	EEEHB1A101P	C 100PF, J, 10V	1	
C2398-03	ECJ1XB1C104K	C 0.1UF, Z, 16V	6	
C2404	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C2405,06	ECJ1VB0J225K	C 2.2UF, K, 6.3V	2	
C2407,08	F1J0J1060004	C 0.010UF, K, 16V	2	
C2409,10	ECJ1XC1H181J	C 180PF, J, 50V	2	
C2411	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C2412,13	ECJ3YB1E106M	C 1.0UF, K, 16V	2	
C3001	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C3002	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3002	ECJ2XB1E104K	C 0.1UF, K, 25V	1	(HB)
C3003	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3003	EEEHP1A100R	E 10UF, 10V	1	(HB)
C3004	EEEHB1C470P	C 47PF, J, 16V	1	(J)
C3004	EEEHP1A100R	E 10UF, 10V	1	(HB)
C3005	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3005	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3006	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3006	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3007	EEEHB1C470P	C 47PF, J, 16V	1	(J)
C3007	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HA)
C3007	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	(J)
C3008	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HA)
C3008	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3009	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3009	EEEHB1C470P	C 47PF, J, 16V	1	(HB)
C3010	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3011	EEEHB1C470P	C 47PF, J, 16V	1	(HA)
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3012	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3012	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	(HB)
C3012	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HA)
C3013	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3013	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HB)
C3014	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3014	EEEHB1C470P	C 47PF, J, 16V	1	(HB)
C3015	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3015	ECJ1XC1H470J	C 47PF, J, 50V	1	(HB)
C3016	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3016	ECJ1XC1H220J	C 22PF, J, 50V	1	(HB)
C3017	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	(J)
C3017	ECJ1XC1H680J	C 68PF, J, 50V	1	(HB)
C3018	EEEHB1C470P	C 47PF, J, 16V	1	(J)
C3018	EEEHB0J330R	C 33PF, J, 6.3V	1	(HB)
C3019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3019	ECJ3YB0J335K	C 33UF, J, 25V	1	(HB)
C3020	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3021	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3021	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HA)
C3021	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HB)
C3022	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	(HA)
C3022	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HB)
C3022,23	ECJ3YB1C225K	C 0.022UF, K, 16V	2	(J)
C3023	EEEHB0J101P	C 100PF, J, 6.3V	1	(HB)
C3024	ECJ3XB0J106M	C 10UF, M,6.3V	1	(HB)
C3024-31	ECJ3YB1C225K	C 0.022UF, K, 16V	8	(J)
C3032	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3033	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3040,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3051-54	ECJ1XC1H561J	C 560PF, J, 50V	4	
C3055,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3101	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C3102	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3103	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3103	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HB)
C3104	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3105	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3105	EEEHB0G221P	C 220PF, J, 4V	1	(HB)
C3106	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3106	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3107	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3108	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3108	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3109	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	(HB)
C3110	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3111	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3112	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3113	EEEHB1C470P	C 47PF, J, 16V	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3113	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3114	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3114	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3115	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3116	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C3116	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3117	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3118	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3119	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C3119	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3120	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3120	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3121	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3122	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3122	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3123	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3123	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3124	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3125	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3126	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C3126	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3127	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3127	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3128	EEEHB1C470P	C 47PF, J, 16V	1	
C3128	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3129	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C3129	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3130	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3130	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3131-02	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3134	F2H0J102A010	C 1000UF, 6.3V	1	
C3135	F2H0J102A010	C 1000UF, 6.3V	1	(J)
C3135	ECJ1VB1C103K	C 0.010UF, K, 16V	1	(HB)
C3136	F2H0J102A010	C 1000UF, 6.3V	1	(J)
C3136	ECJ1XC1H330J	C 33PF, J, 50V	1	(HB)
C3137	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3138	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3139	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3140	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3141	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C3141	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3142	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3142,43	ECJ3YB1C225K	C 0.022UF, K, 16V	2	
C3144	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3144	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3145	EEEHB1C470P	C 47PF, J, 16V	1	
C3146	ECJ3YB1C225K	C 0.022UF, K, 16V	1	(J)
C3146	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HB)
C3147	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3148	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3149	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3150	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3150	ECJ1VB1C103K	C 0.010UF, K, 16V	1	(HB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3151	ECJ1XC1H330J	C 33PF, J, 50V	1	
C3152	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3153	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3154	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3156	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3157	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3158	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3159	EEEHB0G221P	C 220PF, J, 4V	1	
C3160,61	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3162-66	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C3167-78	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C3179	EEEHB0G221P	C 220PF, J, 4V	1	
C3180-83	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3185	ECJ1XC1H060D	C 6PF, D, 50V	1	
C3186	ECJ1XC1H470J	C 47PF, J, 50V	1	
C3188	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3200	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3201	F1J0J1060004	C 0.010UF, K, 16V	1	
C3202	F1J0J1060004	C 0.010UF, K, 16V	1	(J)
C3202	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HB)
C3203	F1J0J1060004	C 0.010UF, K, 16V	1	(J)
C3203	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HB)
C3204-06	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C3207	EEEHB0G221P	C 220PF, J, 4V	1	
C3208-14	ECJ1VF1A105Z	C 1UF, Z, 10V	7	
C3216,17	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C3218	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3253	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3254	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3255	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3256	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3257	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3258	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3259	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3261	EEEHB0G221P	C 220PF, J, 4V	1	
C3262	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C3263,64	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3265	EEEHB0G221P	C 220PF, J, 4V	1	
C3266 02	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3266-68	F2H0J102A010	C 1000UF, 6.3V	3	
C3301	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3308	EEEHB0G221P	C 220PF, J, 4V	1	
C3309	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3311	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3313	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3316,17	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C3318-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3322,23	EEEHB0G221P	C 220PF, J, 4V	2	
C3324	EEEHB0J101P	C 100PF, J, 6.3V	1	
C3325	EEEHB1C470P	C 47PF, J, 16V	1	
C3327-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3404	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3405	EEEHB1C470P	C 47PF, J, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3409	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3523	EEEHB1C470P	C 47PF, J, 16V	1	
C3524	ECJ2VF1H103Z	C 0.010UF, Z, 50V	1	
C3550	ECJ2VF1H103Z	C 0.010UF, Z, 50V	1	
C3551	EEEHB1C470P	C 47PF, J, 16V	1	
C3561,62	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6016,17	F1L1E4750004	C 4.7UF, 25V	2	
C6019	F1L1E4750004	C 4.7UF, 25V	1	
C6036,37	F1L1E4750004	C 4.7UF, 25V	2	
C6039	F1L1E4750004	C 4.7UF, 25V	1	
C6060	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6061	ECA1EM471	E 470UF, 25V	1	
C6063	ECA1EM101	E 100UF, 25V	1	
C6064,65	TCUY1C105ZFN	C 1UF, 16V	2	
C6066-69	ECJ2XB1H103K	C 0.01UF, K, 50V	4	
C6080-87	F0C2E225A166	C 22UF, 250V	8	
C6100	F1L2J562A022	C 5600UF, K,6.3V	1	
C6102,03	F1L2J562A022	C 5600UF, K,6.3V	2	
C6114	F1L1E4750004	C 4.7UF, 25V	1	
C6115	EEUFC1E221	E 220UF, 25V	1	
C6131,32	F1L1E4750004	C 4.7UF, 25V	2	
C6134	F1L1E4750004	C 4.7UF, 25V	1	
C6140-44	F1L2J562A022	C 5600UF, K,6.3V	5	
C6170-78	F2A2D221A022	E 220UF, 200V	9	
C6185,86	F0C2E225A166	C 22UF, 250V	2	
C6200,01	ECA2CM101	E 100UF, 160V	2	
C6202	ECA1EM471	E 470UF, 25V	1	
C6203,04	ECA2CM101	E 100UF, 160V	2	
C6206-09	ECA2CM101	E 100UF, 160V	4	
C6210-14	F0C2E225A166	C 22UF, 250V	5	
C6217,18	F1L1E4750004	C 4.7UF, 25V	2	
C6221	F1L1E4750004	C 4.7UF, 25V	1	
C6223	F1L1E4750004	C 4.7UF, 25V	1	
C6224	EEUFC1E221	E 220UF, 25V	1	
C6225	F1L1E4750004	C 4.7UF, 25V	1	
C6226	TCUY1C105ZFN	C 1UF, 16V	1	
C6233	F1L1E4750004	C 4.7UF, 25V	1	
C6234	EEUFC1E221	E 220UF, 25V	1	
C6235	F1L1E4750004	C 4.7UF, 25V	1	
C6240	ECA2AHG101	E 100UF, 100V	1	
C6256	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6257	F1L1E4750004	C 4.7UF, 25V	1	
C6260	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6262	F1L1E4750004	C 4.7UF, 25V	1	
C6264	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6265	F1L1E4750004	C 4.7UF, 25V	1	
C6266	EEUFC1E102	E 1000UF, 25V	1	
C6268,69	F2A2D221A022	E 220UF, 200V	2	
C6273	F1L1E4750004	C 4.7UF, 25V	1	
C6275	F1L1E4750004	C 4.7UF, 25V	1	
C6401-09	F2A2D221A022	E 220UF, 200V	9	
C6413,14	F0C2E225A166	C 22UF, 250V	2	
C6421	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6422	ECA1EM471	E 470UF, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6425,26	EEUFC1E470	E 47UF, 25V	2	
C6432-35	TCUY1C105ZFN	C 1UF, 16V	4	
C6436	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6437	TCUY1C105ZFN	C 1UF, 16V	1	
C6440	TCUY1C105ZFN	C 1UF, 16V	1	
C6442	TCUY1C105ZFN	C 1UF, 16V	1	
C6444	TCUY1C105ZFN	C 1UF, 16V	1	
C6446	EEUFC1E470	E 47UF, 25V	1	
C6502-04	F0C2E225A166	C 22UF, 250V	3	
C6506-10	F0C2E225A166	C 22UF, 250V	5	
C6511-16	F1L2J222A022	C 2200UF, K,6.3V	6	
C6531-36	F1L2J222A022	C 2200UF, K,6.3V	6	
C6558-60	F1L1E4750004	C 4.7UF, 25V	3	
C6562	F1L1E4750004	C 4.7UF, 25V	1	
C6582	F1L1E4750004	C 4.7UF, 25V	1	
C6584,85	F1L1E4750004	C 4.7UF, 25V	2	
C6587	F1L1E4750004	C 4.7UF, 25V	1	
C6589,90	F1L1E4750004	C 4.7UF, 25V	2	
C6594,95	F1L1E4750004	C 4.7UF, 25V	2	
C6596	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6611	F1L1E4750004	C 4.7UF, 25V	1	
C6612,13	F1K2J102A014	C 1000UF, K,6.3V	2	
C6614	ECA2VHG470	E 47UF, 350V	1	
C6615	ECA1VM470	E 47UF, 35V	1	
C6616,17	F1L1E4750004	C 4.7UF, 25V	2	
C6618	TCUY1C105ZFN	C 1UF, 16V	1	
C6619	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6620	TCUY1C105ZFN	C 1UF, 16V	1	
C6621,22	F1L1E4750004	C 4.7UF, 25V	2	
C6623	ECQE2105RKB	P 1UF, 250V	1	
C6624	F1L1E4750004	C 4.7UF, 25V	1	
C6626	F1L1E4750004	C 4.7UF, 25V	1	
C6627,28	TCUY1C105ZFN	C 1UF, 16V	2	
C6630-32	F1K2J102A014	C 1000UF, K,6.3V	3	
C6634,35	F1L1E4750004	C 4.7UF, 25V	2	
C6636,37	ECA2CM101	E 100UF, 160V	2	
C6638	F1L1E4750004	C 4.7UF, 25V	1	
C6639	TCUY1C105ZFN	C 1UF, 16V	1	
C6651	TCUY1C105ZFN	C 1UF, 16V	1	
C6653	TCUY1C105ZFN	C 1UF, 16V	1	
C6655,56	TCUY1C105ZFN	C 1UF, 16V	2	
C6657	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6658	ECA1HM101	E 100UF, 50V	1	
C6659-62	F1L1E4750004	C 4.7UF, 25V	4	
C6800	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6802	ECA2CM101	E 100UF, 160V	1	
C6803	ECQE2105RKB	P 1UF, 250V	1	
C6804	F2A2D1510004	E 150UF, 200V	1	
C6805	ECQE2105RKB	P 1UF, 250V	1	
C6806	ECA2VHG470	E 47UF, 350V	1	
C6807	ECA1HM221	E 220UF, 50V	1	
C6808,09	ECA2CM101	E 100UF, 160V	2	
C6810	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6812-15	F1K2J332A014	C 3300UF, K,6.3V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6816	F2A2G100A017	E 100UF, 400V	1	
C6818	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6819	TCUY1C105ZFN	C 1UF, 16V	1	
C6820	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6821	EEUFC1E221	E 220UF, 25V	1	
C6822	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6823	F1K2J222A014	C 2200UF, K,6.3V	1	
C6824	ECA2EHG470	E 47UF, 250V	1	
C6825	ECQE6223KF	P 0.022UF, K,400V	1	
C6826	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6827	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6828	EEUFC1V151	E 150UF, 35V	1	
C6829	ECA2DHG330	E 33UF, 200V	1	
C6830	F1L1E4750004	C 4.7UF, 25V	1	
C6831	EEUFC1E470	E 47UF, 25V	1	
C6832	ECJ2XC1H471J	C 470PF, J, 50V	1	
C6833	F1L1E4750004	C 4.7UF, 25V	1	
C6834	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6835	ECJ2XC1H471J	C 470PF, J, 50V	1	
C6836	ECKD3D221KBP	C 220PF, K, 2KV	1	
C6840	ECJ3YB2A223K	C 0.022UF, Z,100V	1	
C6900	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6901	TCUY1C105ZFN	C 1UF, 16V	1	
C6904	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6905,06	F1L2E1040002	E 1000UF, 25V	2	
C6907	TCUY1C105ZFN	C 1UF, 16V	1	
C6909	TCUY1C105ZFN	C 1UF, 16V	1	
C6911	TCUY1C105ZFN	C 1UF, 16V	1	
C6913,14	F1L2E1040002	E 1000UF, 25V	2	
C6915	TCUY1C105ZFN	C 1UF, 16V	1	
C6918	TCUY1C105ZFN	C 1UF, 16V	1	
C6920	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6921	TCUY1C105ZFN	C 1UF, 16V	1	
C6923,24	F1L2E1040002	E 1000UF, 25V	2	
C6925	TCUY1C105ZFN	C 1UF, 16V	1	
C6927	TCUY1C105ZFN	C 1UF, 16V	1	
C6929	TCUY1C105ZFN	C 1UF, 16V	1	
C6931,32	F1L2E1040002	E 1000UF, 25V	2	
C6934	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6935	TCUY1C105ZFN	C 1UF, 16V	1	
C6938	TCUY1C105ZFN	C 1UF, 16V	1	
C7101,02	TCUY1C105ZFN	C 1UF, 16V	2	
C7103,04	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7107	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7111	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7125	TCUY1C105ZFN	C 1UF, 16V	1	
C7130	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7136-38	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C7139	TCUY1C105ZFN	C 1UF, 16V	1	
C7150	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7152	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7155	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7167	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7168	TCUY1C105ZFN	C 1UF, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7169	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7201	TCUY1C105ZFN	C 1UF, 16V	1	
C7203	TCUY1C105ZFN	C 1UF, 16V	1	
C7207,08	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7210	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7212	TCUY1C105ZFN	C 1UF, 16V	1	
C7214	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7216	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7221	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7222	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7224	TCUY1C105ZFN	C 1UF, 16V	1	
C7225	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7229	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7231	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7232	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7234,35	ECJ3XB2A474K	C 0.47UF, 6.3V	2	
C7238	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7240	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7265	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7274	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7301	TCUY1C105ZFN	C 1UF, 16V	1	
C7304	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7308,09	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7311,12	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7315,16	TCUY1C105ZFN	C 1UF, 16V	2	
C7323	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7326	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7329	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7339,40	TCUY1C105ZFN	C 1UF, 16V	2	
C7351	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7359-62	ECJ3XB2A474K	C 0.47UF, 6.3V	4	
C7401	TCUY1C105ZFN	C 1UF, 16V	1	
C7406	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7412-15	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C7418,19	TCUY1C105ZFN	C 1UF, 16V	2	
C7420-23	ECJ3XB2A474K	C 0.47UF, 6.3V	4	
C7428,29	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7440,41	TCUY1C105ZFN	C 1UF, 16V	2	
C7452,53	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7502,03	TCUY1C105ZFN	C 1UF, 16V	2	
C7505	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7507	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7508	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7509	TCUY1C105ZFN	C 1UF, 16V	1	
C7510	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7512	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7514	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7515,16	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7526-28	ECJ3XB2A474K	C 0.47UF, 6.3V	3	
C7552	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7554	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7556	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7558	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7560	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7563,64	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7566,67	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7601,02	TCUY1C105ZFN	C 1UF, 16V	2	
C7611-13	ECJ1XC1H101J	C 100PF, J, 50V	3	
C7624	TCUY1C105ZFN	C 1UF, 16V	1	
C7630	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7635-37	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C7640	TCUY1C105ZFN	C 1UF, 16V	1	
C7650	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7653-55	ECJ3XB2A474K	C 0.47UF, 6.3V	3	
C7687	TCUY1C105ZFN	C 1UF, 16V	1	
C7688	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7695	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C8001	EEEHB1C470P	C 47PF, J, 16V	1	
C8002,03	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C8005,06	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
C8007,08	ECJ1XC1H101J	C 100PF, J, 50V	2	
C8009	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8011	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8013,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8015	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8016	ECJ3YB1A475K	C 0.047UF, K, 10V	1	
C8017	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8018	ECJ3YB1A475K	C 0.047UF, K, 10V	1	
C8019,20	ECJ1VB1H103K	C 0.001UF, K, 50V	2	
C8021,22	ECJ3VB1C474K	C 0.47UF, K, 16V	2	
C8023-26	ECJ1VB1H103K	C 0.001UF, K, 50V	4	
C8027	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C8029	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C8030	EEEHB1C470P	C 47PF, J, 16V	1	
C8031	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C8032	EEEHB1C470P	C 47PF, J, 16V	1	
C8033,34	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C8035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8036,37	ECJ1XC1H101J	C 100PF, J, 50V	2	
C8038,39	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C8041	ECJ3YB1C225K	C 0.022UF, K, 16V	1	
C8043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8045	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C8049,50	ECJ2VF1H103Z	C 0.010UF, Z, 50V	2	
C8051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8070	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C8071	EEEHB1C470P	C 47PF, J, 16V	1	
C8072,73	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C8080-83	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C8084	TCUY1C105ZFN	C 1UF, 16V	1	
C8100	EEEHB1C470P	C 47PF, J, 16V	1	
C8101	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C8102,03	EEEHB1C470P	C 47PF, J, 16V	2	
C8105,06	EEEHB1C470P	C 47PF, J, 16V	2	
C8107	EEVHB1C471	E 470UF, 16V	1	
C8108,09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8111-13	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8114	ECJ2VF1H103Z	C 0.010UF, Z, 50V	1	
C8115	EEEHB1C470P	C 47PF, J, 16V	1	
C8116	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C8120	EEEHB1E330P	C 33PF, J, 25V	1	
C8121	ECJ1XF1E104Z	C 0.1UF, Z, 25V	1	
C8122	EEEHB1C470P	C 47PF, J, 16V	1	
C8123	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8181,82	ECJ1XC1H150J	C 15PF, J, 50V	2	
C8183	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8185	EECS5R5H155	E 1.5UF, 5.5V	1	
C8200	EEEHB1C470P	C 47PF, J, 16V	1	
C9001,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9003	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9004	ECJ1VB1C823K	C 0.082UF, K, 16V	1	
C9006	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9007-09	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C9010	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9011-13	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9016	F1J0J106A013	C 0.010UF, K, 16V	1	
C9017,18	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9019	F1J0J106A013	C 0.010UF, K, 16V	1	
C9020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9021	F1J0J106A013	C 0.010UF, K, 16V	1	
C9022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9031	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9051,52	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9053	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9054	ECJ1VB1C823K	C 0.082UF, K, 16V	1	
C9056	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9057-59	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C9060	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9061-63	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9066	F1J0J106A013	C 0.010UF, K, 16V	1	
C9067,68	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9069	F1J0J106A013	C 0.010UF, K, 16V	1	
C9070	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9071	F1J0J106A013	C 0.010UF, K, 16V	1	
C9072	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9076	EEEHB1C470P	C 47PF, J, 16V	1	
C9081	TCUY1C105ZFN	C 1UF, 16V	1	
C9093	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9095	ECJ1XC1H220J	C 22PF, J, 50V	1	
C9101-05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9107,08	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9151,52	TCUY1C105ZFN	C 1UF, 16V	2	
C9155	EEEHB1C470P	C 47PF, J, 16V	1	
C9156	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9201	EEEHB1C470P	C 47PF, J, 16V	1	
C9202-13	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	
C9214	EEEHB1C470P	C 47PF, J, 16V	1	
C9215-18	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9219-22	F1J0J106A013	C 0.010UF, K, 16V	4	
C9225-27	F1J0J106A013	C 0.010UF, K, 16V	3	
C9234	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9235,36	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9241	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9373	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9375	EEEHB1C470P	C 47PF, J, 16V	1	
C9377	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9379	EEEHB1C470P	C 47PF, J, 16V	1	
C9383	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9386	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9387-23	ECJ1XF1C104Z	C 0.1UF, Z, 16V	37	
C9424-40	ECJ1XB1C104K	C 0.1UF, Z, 16V	17	
C9441	EEEHB0G221P	C 220PF, J, 4V	1	
C9442	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9443-46	ECJ1VF1H103Z	C 0.010UF, Z, 50V	4	
C9461-63	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C9464-66	F1J0J106A013	C 0.010UF, K, 16V	3	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9515,16	EEVHB1C471	E 470UF, 16V	2	
C9594	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9599	ECJ2FB1E475M	C 4.7UF, K, 25V	1	
C960	TBB475K1	CERAMIC CHIP CAPACITOR	1	
C9601	ECGRL0G680R	C 68PF, J, 4V	1	
C9602	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9603	ECGRL0G680R	C 68PF, J, 4V	1	
C9604	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9606	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9608	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9609	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C9610	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9611	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C9612	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9613	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9614	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9617,18	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9619	EEEHB1C470P	C 47PF, J, 16V	1	
C9620	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9622-24	F1J0J1060004	C 0.010UF, K, 16V	3	
C9626	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9627	EEEHB1C470P	C 47PF, J, 16V	1	
C9628	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9630-32	F1J0J1060004	C 0.010UF, K, 16V	3	
C9634,35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9637-42	ECJ3XF1C475Z	C 4.7UF, Z, 16V	6	
C9643,44	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9645	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C9646	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C9647,48	ECJ1XC1H080D	C 8PF, D, 50V	2	
C9650,51	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9652	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9653	ECJ1VC1H080C	C 8PF, C, 50V	1	
C9654	F1J0J1060004	C 0.010UF, K, 16V	1	
C9662-01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	40	
C9702	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9703-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9708-11	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9712	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9713	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9715-17	TCUY1C105ZFN	C 1UF, 16V	3	
C9718,19	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9721-23	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9724	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9725	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9726	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9733	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C9734	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9735	ECJ2FF1C475Z	C 0.047UF, Z, 16V	1	
C9736,37	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9738	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9739-41	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C9742	EEEHB0G221P	C 220PF, J, 4V	1	
C9743-46	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9747	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9748-61	ECJ1XB1C104K	C 0.1UF, Z, 16V	14	
C9762	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9763	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9764	EEEHB0G221P	C 220PF, J, 4V	1	
C9779	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9780	F2H1E221A007	E 2.2UF, 25V	1	
C9781-83	F1J0J106A013	C 0.010UF, K, 16V	3	
C9784	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9785	F1J0J106A013	C 0.010UF, K, 16V	1	
C9981	EEEHB1C470P	C 47PF, J, 16V	1	
C9982	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9983	EEEHB0G221P	C 220PF, J, 4V	1	
C9984	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9985	F1J0J106A013	C 0.010UF, K, 16V	1	
C9986	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9988	F1J0J106A013	C 0.010UF, K, 16V	1	
C9989	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9991	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9992	EEEHB1C470P	C 47PF, J, 16V	1	
C9993	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9994	F1J0J106A013	C 0.010UF, K, 16V	1	
CA1-11	K1MN68BA0138	68P CONNECTOR	11	
CB1-11	K1MN68BA0002	68P CONNECTOR	11	
CN01	B3P-VH	CONNECTOR	1	
CN02	B10B-PH-KS	CONNECTOR	1	
CN03	B3P4VH-B-L	CONNECTOR	1	⚠
CN04	B2P3-VH-B	CONNECTOR	1	
CN05	B3P4VH-B-L	CONNECTOR	1	⚠
CN06	B10B-PH-KS	CONNECTOR	1	
CN08	B3P-VH	CONNECTOR	1	
CNPFC3	B2P3-VH-B	CONNECTOR	1	
D1	K1KA20AA0335	20P CONNECTOR	1	
D3	K1KA40AA0009	40P CONNECTOR	1	
D4	K1KA14A00248	14P CONNECTOR	1	
D5	K1KA31A00007	31P CONNECTOR	1	
D10	K1KA12AA0105	12P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D20	K1KA20AA0008	20P CONNECTOR	1	
D25	K1KA20AA0009	20P CONNECTOR	1	
D31,32	K1MN55BA0076	55P CONNECTOR	2	
D33,34	K1MN68BA0076	68P CONNECTOR	2	
D332	RB550VA-30	DIODE	1	
D334	RB550VA-30	DIODE	1	
D335	RU-1P	DIODE	1	
D337	RU-1P	DIODE	1	
D375	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
D401	RB550VA-30	DIODE	1	
D402,03	M1FS6	DIODE	2	
D405	M1FS6	DIODE	1	
D451-54	RB085T60	DIODE	4	
D455	M1FS6	DIODE	1	
D457-59	MA111	DIODE	3	
D601	MA111	DIODE	1	
D603	MA111	DIODE	1	
D605	M1F60	DIODE	1	
D606	RB550VA-30	DIODE	1	
D607	S3V60	DIODE	1	
D608,09	RB550VA-30	DIODE	2	
D701	RB550VA-30	DIODE	1	
D702,03	M1FS6	DIODE	2	
D705	M1FS6	DIODE	1	
D709	FCF06A40	DIODE	1	
D801	B0JCPD000026	DIODE	1	
D802,03	B0JCME000037	DIODE	2	
D850-54	MA165	DIODE	5	
D856,57	MA165	DIODE	2	
D859	AK04	DIODE	1	
D901	ST3D200	CLAMPER	1	
D902-04	B0HALP000007	DIODE	3	
D905	ERA91-02	DIODE	1	
D906	B0HALP000007	DIODE	1	
D951	RK49	DIODE	1	
D952	MA111	DIODE	1	
D1550	LNJ107W5PRW	LED	1	
D1551	MA8033L	ZENER DIODE	1	
D1554	MA8033L	ZENER DIODE	1	
D1601	MA111	DIODE	1	
D1602	S1WBA80	DIODE	1	⚠
D1603	MA111	DIODE	1	
D1605	M1F60	DIODE	1	
D1607	S3V60	DIODE	1	
D1608,09	RB550VA-30	DIODE	2	
D1613,14	ERA22-10	DIODE	2	
D2301-03	B0JCME000037	DIODE	3	
D3001	MA111	DIODE	1	(J)
D3001	MA729	DIODE	1	(HB)
D3002	MA3100M	ZENER DIODE	1	
D3003,04	MA111	DIODE	2	
D3005	LNJ206R5ARA	LED	1	
D3007,08	MA111	DIODE	2	
D3061	MA728	DIODE	1	

[illegible]	[illegible]	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3501-04	MA3056M	ZENER DIODE	4	
D3507-10	MA8160H	ZENER DIODE	4	
D6000-03	B0HBSN000008	DIODE	4	
D6004	B0HDSM000005	DIODE	1	
D6010,11	B0HBSN000008	DIODE	2	
D6012	B0ECHP000003	DIODE	1	
D6013,14	B0HCMM000014	DIODE	2	
D6015	B0ECHP000003	DIODE	1	
D6016	B0HBSN000008	DIODE	1	
D6020-22	B0HBSN000008	DIODE	3	
D6024,25	B0ECHP000003	DIODE	2	
D6030,31	B0HBSN000008	DIODE	2	
D6035,36	B0ECHP000003	DIODE	2	
D6060	MA111	DIODE	1	
D6061,62	MA8330M	ZENER DIODE	2	
D6063	LNJ301MPUJA	LED	1	
D6064	MA8051L	ZENER DIODE	1	
D6065,66	MA152	DIODE	2	
D6135	MA111	DIODE	1	
D6146-48	B0HBSN000008	DIODE	3	
D6190	B0ECHP000003	DIODE	1	
D6200	B0HDSM000005	DIODE	1	
D6203	B0HDSM000005	DIODE	1	
D6206-09	B0ECHP000003	DIODE	4	
D6210-12	B0HDSM000005	DIODE	3	
D6213,14	B0ECHP000003	DIODE	2	
D6215	B0HDSM000005	DIODE	1	
D6221	B0JCME000037	DIODE	1	
D6225	B0JCME000037	DIODE	1	
D6226,27	B0ECHP000003	DIODE	2	
D6228	B0HDSM000005	DIODE	1	
D6240	B0HDSM000005	DIODE	1	
D6241,42	B0ECHP000003	DIODE	2	
D6250-53	B0JCME000037	DIODE	4	
D6257-59	B0ECHP000003	DIODE	3	
D6262	B0JCME000037	DIODE	1	
D6263,64	MA111	DIODE	2	
D6271	MA111	DIODE	1	
D6411	MA111	DIODE	1	
D6412	MA8051L	ZENER DIODE	1	
D6413,14	MA8330M	ZENER DIODE	2	
D6415	LNJ301MPUJA	LED	1	
D6416	MA111	DIODE	1	
D6417,18	MA8330M	ZENER DIODE	2	
D6419-21	MA111	DIODE	3	
D6422,23	MA8200M	ZENER DIODE	2	
D6501-04	B0HBSN000008	DIODE	4	
D6507	B0HBSN000008	DIODE	1	
D6511-14	B0HBSN000008	DIODE	4	
D6517	MA8330M	ZENER DIODE	1	
D6518,19	MA111	DIODE	2	
D6521-23	B0HBSN000008	DIODE	3	
D6525-29	B0HBSN000008	DIODE	5	
D6559	MA111	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6561,62	B0ECHP000003	DIODE	2	
D6563	B0HBSN000008	DIODE	1	
D6564-66	B0ECHP000003	DIODE	3	
D6567-70	B0JCME000037	DIODE	4	
D6571	B0ECHP000003	DIODE	1	
D6611,12	B0ECHP000003	DIODE	2	
D6613	MA8240M	ZENER DIODE	1	
D6615,16	MA111	DIODE	2	
D6617	MA8051L	ZENER DIODE	1	
D6618	B0HCMM000014	DIODE	1	
D6619	MA111	DIODE	1	
D6620	B0ECHP000003	DIODE	1	
D6621	MA111	DIODE	1	
D6622	MA8240M	ZENER DIODE	1	
D6623	B0JCME000037	DIODE	1	
D6624	MA111	DIODE	1	
D6625	B0HCKS000002	DIODE	1	
D6627,28	MA111	DIODE	2	
D6629,30	B0HCKS000002	DIODE	2	
D6631	MA111	DIODE	1	
D6632	B0JCME000037	DIODE	1	
D6633	MA111	DIODE	1	
D6634	MA8051L	ZENER DIODE	1	
D6635-37	MA8330M	ZENER DIODE	3	
D6638	MA111	DIODE	1	
D6639	B0HCMM000014	DIODE	1	
D6640-42	MA111	DIODE	3	
D6643	B0HCMM000014	DIODE	1	
D6644-51	MA8056H	ZENER DIODE	8	
D6652	MA111	DIODE	1	
D6653	MA8056H	ZENER DIODE	1	
D6654-57	B0JCME000037	DIODE	4	
D6658	B0HCKS000002	DIODE	1	
D6659	MA8056H	ZENER DIODE	1	
D6702,03	MA8056H	ZENER DIODE	2	
D6808	MA111	DIODE	1	
D6809,10	B0HBSN000008	DIODE	2	
D6811-14	B0ECHP000003	DIODE	4	
D6815	B0JCME000037	DIODE	1	
D6817	MA111	DIODE	1	
D6818	B0JCKG000002	DIODE	1	
D6819	B0HCKS000002	DIODE	1	
D6820	MA111	DIODE	1	
D6821	B0JCME000037	DIODE	1	
D6822,23	B0HCKS000002	DIODE	2	
D6824	B0HCMM000014	DIODE	1	
D6825	B0BC01000044	ZENER DIODE	1	
D6826	B0ECHP000003	DIODE	1	
D6827	MA111	DIODE	1	
D6828	B0HCKS000002	DIODE	1	
D6829	MA111	DIODE	1	
D6830	B0HCKS000002	DIODE	1	
D6831,32	MA111	DIODE	2	
D6833-35	B0HCMM000014	DIODE	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6837	MA8056H	ZENER DIODE	1	
D6838,39	MA111	DIODE	2	
D6840	B0ECHP000003	DIODE	1	
D6841	B0HCMM000014	DIODE	1	
D6900,01	MA8056H	ZENER DIODE	2	
D6902	B0ECHP000003	DIODE	1	
D6906	B0ECHP000003	DIODE	1	
D6920	MA8056H	ZENER DIODE	1	
D6921	B0ECHP000003	DIODE	1	
D6925	B0ECHP000003	DIODE	1	
D6926	MA8056H	ZENER DIODE	1	
D7101-08	B0HCMM000014	DIODE	8	
D7201-06	B0HCMM000014	DIODE	6	
D7209	B0HDSM000005	DIODE	1	
D7301-08	B0HCMM000014	DIODE	8	
D7405-12	B0HCMM000014	DIODE	8	
D7501-06	B0HCMM000014	DIODE	6	
D7509	B0HDSM000005	DIODE	1	
D7601-08	B0HCMM000014	DIODE	8	
D8001-04	MA111	DIODE	4	
D8010,11	MA153	DIODE	2	
D8180	MA111	DIODE	1	
D8200	MA3150M	ZENER DIODE	1	
D8201	MA111	DIODE	1	
D8203	MA3100M	ZENER DIODE	1	
D8204	MA111	DIODE	1	
D8205-07	MA8056-M	ZENER DIODE	3	
D9300-03	MA152K	DIODE	4	
D9500,01	B0JCDD000002	DIODE	2	
D9502,03	B0JCPE000004	DIODE	2	
D9702-05	MA3033	ZENER DIODE	4	
D9707	MA728	DIODE	1	
D9711-13	MA152K	DIODE	3	
D9715	MA728	DIODE	1	
D9721	MA3036H	ZENER DIODE	1	
D9731	MA728	DIODE	1	
D9732-35	MA152K	DIODE	4	
FL3000-03	F1J1E1040022	LC FILTER	4	
FL3006-10	F1J1E1040022	LC FILTER	5	
FL3507-09	J0HABB000004	LC FILTER	3	
FL3510-17	TLK212T256AL	EMI FILTER	8	
FL7201,02	J0HABH000013	LC FILTER	2	
FL7501,02	J0HABH000013	LC FILTER	2	
FL9001	J0MAB0000175	LC FILTER	1	
FL9051	J0MAB0000175	LC FILTER	1	
FL9300-05	F1J1E1040022	LC FILTER	6	
FL9500	F1J1E1040022	LC FILTER	1	
FL9502-04	F1J1E1040022	LC FILTER	3	
FL9701-09	F1J1E1040022	LC FILTER	9	
H0	K1KA08AA0150	8P CONNECTOR	1	
H1	K1KA80B00037	80P CONNECTOR	1	(HA)
H1	K1KA80B00037	80P CONNECTOR	1	(HB)
H37	K1KA03AA0190	3P CONNECTOR	1	
H37	K1KA03AA0190	3P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
HX1	K1KB22A00036	22P CONNECTOR	1	
IC401	F9222L	INTEGRATED CIRCUIT	1	⚠
IC701	F9222L	INTEGRATED CIRCUIT	1	⚠
IC801-03	C0DBAMH00013	IC	3	
IC804	C0CBCAC00275	IC	1	
IC850	C0DAAZG00014	IC	1	
IC901	MIP3E3SMY	INTEGRATED CIRCUIT	1	
IC2301,02	C1BA00000383	IC	2	
IC2303	C1BB00001006	IC	1	
IC2305	C0ABBA000168	IC	1	
IC3001	MC14052BF	MOS IC (CMOS GATE ARRLY)	1	(J)
IC3001	C0JBAR000419	IC	1	(HB)
IC3002	C0JBBR000002	IC	1	(J)
IC3002	C3EAGC000027	IC	1	(HA)
IC3002	C0ABGB000001	IC	1	(HB)
IC3003	CXA1315M	LINEAR IC	1	
IC3003	C0ABGB000001	IC	1	(HB)
IC3004	CXA1875AM	LINEAR IC	1	
IC3005	C1AB00002311	IC	1	
IC3006	CXA1315M	LINEAR IC	1	
IC3007,08	C0JBAS000215	IC	2	
IC3101	C1AB00002238	IC	1	(J)
IC3101	C0DBEZG00018	IC	1	(HB)
IC3102	C1AB00002238	IC	1	(J)
IC3102	C0DBZLB00003	IC	1	(HB)
IC3103	C1AB00002158	IC	1	
IC3104	PST9128NR	IC (LOGIC)	1	
IC3105	C0JBAZ002269	IC	1	
IC3150	C0JBAA000419	IC	1	
IC3201	C3HBKZ000002	IC	1	
IC3251	C0ZBZ0000967	IC	1	
IC3301	MM1065ZMR	LINEAR IC	1	
IC3302	C0DBEZG00018	IC	1	
IC3303	AN80L25RMS	IC	1	
IC3304	C0JBAZ002344	IC	1	
IC3305	JLC1562BF	MOS IC (MICON LSI) *	1	
IC3502	TVRN652	IC	1	
IC3699	C3EBGC000065	IC	1	
IC6000	C0ZBZ0000895	IC	1	
IC6020	C0ZBZ0000895	IC	1	
IC6060	C0JBAZ000005	IC	1	
IC6061,62	NJM2903M	INTEGRATED CIRCUIT	2	
IC6100	C0ZBZ0000895	IC	1	
IC6200,01	C0ZBZ0000895	IC	2	
IC6220,21	C0ZBZ0000895	IC	2	
IC6240	C0JBAZ000005	IC	1	
IC6250	C0ZBZ0000895	IC	1	
IC6251	C0ZBZ0001033	IC	1	
IC6252	AN1431M	LINEAR IC	1	
IC6411,12	C0JBAZ000005	IC	2	
IC6413	C0JBAA000174	IC	1	
IC6421	NJM2903M	INTEGRATED CIRCUIT	1	
IC6501-04	C0ZBZ0000895	IC	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC6610	C0ZBZ0001033	IC	1	
IC6611	C0CBADC00075	IC	1	
IC6620	C0ZBZ0001033	IC	1	
IC6621	C0CBADC00075	IC	1	
IC6630	C0ZBZ0001033	IC	1	
IC6640	C0ZBZ0001033	IC	1	
IC6650,51	C0JBAZ000994	IC	2	
IC6652	C0CBALC00010	IC	1	
IC6653,54	C0CBADC00075	IC	2	
IC6801	C0DAAMH00005	IC	1	
IC6811,12	AN1431M	LINEAR IC	2	
IC6814,15	AN1431M	LINEAR IC	2	
IC6816	C0CBALC00010	IC	1	
IC6817,18	AN1431M	LINEAR IC	2	
IC6900-05	AN16021A-VT	IC	6	
IC6920-25	AN16021A-VT	IC	6	
IC7102	C0JBAZ001120	IC	1	
IC7104-07	C0JBAZ001120	IC	4	
IC7201-12	C0JBAZ001120	IC	12	
IC7301-05	C0JBAZ001120	IC	5	
IC7401-05	C0JBAZ001120	IC	5	
IC7501-13	C0JBAZ001120	IC	13	
IC7602-06	C0JBAZ001120	IC	5	
IC8001,02	MC14052BF	MOS IC (CMOS GATE ARRLY)	2	
IC8003,04	C1AA00000706	IC	2	
IC8005	C0JBAB000646	IC	1	
IC8007,08	C0JBAR000419	IC	2	
IC8009	C0JBAS000215	IC	1	
IC8014	C0ZBZ0000911	IC	1	
IC8016	C0JBAZ001934	IC	1	
IC8100	C0CBAKG00008	IC	1	
IC8181	C1DB00001208	IC	1	
IC9001	C0FBAD000102	IC	1	
IC9002	C0CBCBC00190	IC	1	
IC9031	C0JBAZ002198	IC	1	
IC9051	C0FBAD000102	IC	1	
IC9052	C0CBCBC00190	IC	1	
IC9101	C0ZBZ0000764	IC	1	
IC9102	C0JBAZ002198	IC	1	
IC9103	C0JBAE000354	IC	1	
IC9151,52	C0JBAZ000856	IC	2	
IC9201	C1ZBZ0002917	IC	1	
IC9202	C0EBD0000038	IC	1	
IC9203	TVRN717	IC	1	
IC9301	C3ABQJ000031	IC	1	
IC9302	MN845121-A	IC	1	
IC9303	TVRN708	IC	1	
IC9304-06	C0JBAZ000856	IC	3	
IC9501	MN845111-A	IC	1	
IC9502	C1ZBZ0002769	IC	1	
IC9504	C3ABQJ000031	IC	1	
IC9506	C0DBAHE00017	IC	1	
IC9605	PST9128NR	IC (LOGIC)	1	
IC9607,08	C0DBEJG00001	IC	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9701	MN102H90MPD	IC	1	
IC9702	TVRN501-1	IC	1	
IC9703	TVRN647	IC	1	
IC9704	C0EBE0000447	IC	1	
IC9711	C0JBAE000354	IC	1	
IC9713	C0JBAS000215	IC	1	
IC9714	C0JBAZ000856	IC	1	
IC9715	C0JBAE000354	IC	1	
IC9953	C0DBEJG00001	IC	1	
IC9954	C0DBEGE00002	IC	1	
IP901	ERBSE0R75U	MICRO FUSE	1	
J1	K1KA20AA0335	20P CONNECTOR	1	
J3	K1KA40AA0009	40P CONNECTOR	1	
J4	K1KA11BA0051	11P CONNECTOR	1	
J5	K1KA21B00008	21P CONNECTOR	1	
J6	K1KA21B00009	21P CONNECTOR	1	
J7,J8	K1KA03BA0055	3P CONNECTOR	2	
J10	K1KA06BA0050	6P CONNECTOR	1	
J11-13	K1KB80B00024	80P CONNECTOR	3	
J14	K1KA22A00067	22P CONNECTOR	1	
J34	K1KA08BA0047	8P CONNECTOR	1	
JK3001	K1QBB3BB0002	CONNECTOR	1	(HA)
JK3001	K1CB106B0027	CONNECTOR	1	(HB)
JK3002	K2HA204B0097	JACK	1	(HA)
JK3002	K1QBB2AB0005	CONNECTOR	1	(HB)
JK3004	K2HA204B0097	JACK	1	
JK3509	K1FB109BA018	CONNECTOR	1	
JK3511	K1FB115BA020	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS3001-08	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
JS3011-16	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JS3301-06	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
JS3308-10	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS6201	ERD25V0T	M OHM, 1/10W	1	
JS6402	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS6801	ERD25V0T	M OHM, 1/10W	1	
JS801-16	ERJ6GEY0R00	M 0 OHM, 1/10W	16	
JS8094-97	J0JCC0000100	CHIP INDUCTOR	4	
K601	DG12D1-O	RELAY	1	⚠
K602	DJ12D2-0	RELAY	1	⚠
K1601	DG12D1-0	RELAY	1	⚠
K1602	DJ12D2-0	RELAY	1	⚠
L301-04	EXCELSR35	FERRITE BEAD INDUCTOR	4	
L401,02	EXCELSA35	BEAD CHOKE	2	
L452	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L454	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L601,02	P3180207Z	CHOKE	2	⚠
L604	S4667106Z	CHOKE	1	
L606-11	EXCELDR35	FERRITE BEAD INDUCTOR	6	
L701,02	EXCELSA35	BEAD CHOKE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L801	G1C470MA0078	INDUCTOR COIL	1	
L802	G1C101MA0078	INDUCTION COIL	1	
L803	G1C220MA0078	INDUCTION COIL	1	
L804-11	J0JHC0000078	CHIP INDUCTOR	8	
L851	G0A680ZA0047	CHOKE COIL	1	
L901	EXCELSA35	BEAD CHOKE	1	
L902	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L904	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L1601,02	P2515303Z	FILTER CHOKE	2	⚠
L1604	S3370105Y	CHOKE	1	
L1606	ELF15N004A	FILTER CHOKE	1	⚠
L1607,08	EXCELDR35	FERRITE BEAD INDUCTOR	2	
L1612	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L1614	EXCELDR35	FERRITE BEAD INDUCTOR	1	
L2330,31	G0A221ZA0041	CHOKE COIL	2	
L3001	J0HABB000004	LC FILTER	1	(J)
L3001	J0HABB000003	LC FILTER	1	(HB)
L3002	G1C100K00020	INDUCTION COIL	1	(J)
L3002	J0HABB000004	LC FILTER	1	(HA)
L3002	J0HABB000004	LC FILTER	1	(HB)
L3003	G1C100K00020	INDUCTION COIL	1	(J)
L3003	J0HABB000004	LC FILTER	1	(HA)
L3003	J0HABB000004	LC FILTER	1	(HB)
L3004	J0HABB000003	LC FILTER	1	
L3005	G1C100K00020	INDUCTION COIL	1	(J)
L3005	J0HABB000003	LC FILTER	1	(HA)
L3005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
L3006	G1C100K00020	INDUCTION COIL	1	(J)
L3006	ELJPA100KB	CHIP INDUCTOR	1	(HA)
L3006	J0E8004B0008	LC FILTER	1	(HB)
L3007	G1C2R2K00006	INDUCTION COIL	1	
L3050	G1C100K00020	INDUCTION COIL	1	
L3051,52	ELJNA1R5JF	INDUCTION COIL	2	
L3102-04	ELJPA100KB	CHIP INDUCTOR	3	
L3140	J0JHC0000078	CHIP INDUCTOR	1	
L3201	ELJPA100KB	CHIP INDUCTOR	1	
L3251,52	ELJPA2R2MF	CHIP INDUCTOR	2	
L3305-08	ELKE103FA	NOISE FILTER	4	
L3526	ELJPA100KB	CHIP INDUCTOR	1	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L6010-13	G0CR96KA0118	PEAKING COIL	4	
L6014	G0ZZ00002183	PEAKING COIL	1	
L6015,16	G0CR96KA0118	PEAKING COIL	2	
L6030,31	G0CR96KA0118	PEAKING COIL	2	
L6033,34	G0CR96KA0118	PEAKING COIL	2	
L6040	G0ZZ00002183	PEAKING COIL	1	
L6042	G0ZZ00002183	PEAKING COIL	1	
L6044	G0ZZ00002183	PEAKING COIL	1	
L6046	G0ZZ00002183	PEAKING COIL	1	
L6048	G0ZZ00002183	PEAKING COIL	1	
L6050	G0ZZ00002183	PEAKING COIL	1	
L6052	G0ZZ00002183	PEAKING COIL	1	
L6054	G0ZZ00002183	PEAKING COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L6068	J0JJC0000021	CHIP INDUCTOR	1	
L6070	G0ZZ00002183	PEAKING COIL	1	
L6072	G0ZZ00002183	PEAKING COIL	1	
L6074	G0ZZ00002183	PEAKING COIL	1	
L6076	G0ZZ00002183	PEAKING COIL	1	
L6078	G0ZZ00002183	PEAKING COIL	1	
L6080	G0ZZ00002183	PEAKING COIL	1	
L6098	J0JJC0000021	CHIP INDUCTOR	1	
L6170	G0ZZ00002183	PEAKING COIL	1	
L6180-82	G0ZZ00002183	PEAKING COIL	3	
L6183,84	J0JJC0000021	CHIP INDUCTOR	2	
L6190	J0JJC0000021	CHIP INDUCTOR	1	
L6203-07	G0CR60KA0118	PEAKING COIL	5	
L6210,11	J0JJC0000021	CHIP INDUCTOR	2	
L6216,17	J0JJC0000021	CHIP INDUCTOR	2	
L6223-26	J0JJC0000021	CHIP INDUCTOR	4	
L6231-33	J0JJC0000021	CHIP INDUCTOR	3	
L6235,36	J0JJC0000021	CHIP INDUCTOR	2	
L6239-41	G0ZZ00002183	PEAKING COIL	3	
L6249	G0ZZ00002183	PEAKING COIL	1	
L6250-53	J0JJC0000021	CHIP INDUCTOR	4	
L6411,12	G0ZZ00002183	PEAKING COIL	2	
L6414	G0ZZ00002183	PEAKING COIL	1	
L6501-10	G0CR96KA0118	PEAKING COIL	10	
L6513-16	J0JJC0000021	CHIP INDUCTOR	4	
L6521-36	G0ZZ00002183	PEAKING COIL	16	
L6546	G0ZZ00002183	PEAKING COIL	1	
L6548	G0ZZ00002183	PEAKING COIL	1	
L6550	G0ZZ00002183	PEAKING COIL	1	
L6552	G0ZZ00002183	PEAKING COIL	1	
L6554	G0ZZ00002183	PEAKING COIL	1	
L6556	G0ZZ00002183	PEAKING COIL	1	
L6676-79	J0JJC0000021	CHIP INDUCTOR	4	
L6680	G0ZZ00002183	PEAKING COIL	1	
L6809-13	G0ZZ00002183	PEAKING COIL	5	
L6814-16	J0JJC0000021	CHIP INDUCTOR	3	
L7101-08	J0JJC0000011	CHIP INDUCTOR	8	
L7203-08	J0JJC0000011	CHIP INDUCTOR	6	
L7301-08	J0JJC0000011	CHIP INDUCTOR	8	
L7401-08	J0JJC0000011	CHIP INDUCTOR	8	
L7503-08	J0JJC0000011	CHIP INDUCTOR	6	
L7601-08	J0JJC0000011	CHIP INDUCTOR	8	
L8001	G1C100K00020	INDUCTION COIL	1	
L8003-05	G1C100K00020	INDUCTION COIL	3	
L8181	G1C100K00020	INDUCTION COIL	1	
L8182-89	J0JHC0000078	CHIP INDUCTOR	8	
L8501	G0A2R5H00003	CHOKE COIL	1	
L8502	G0A2R5H00003	CHOKE COIL	1	
L8502 02	G0A2R5H00003	CHOKE COIL	1	
L9204	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
L9205,06	J0JHC0000096	CHIP INDUCTOR	2	
L9401-03	J0JHC0000096	CHIP INDUCTOR	3	
L9500	G1C150MA0169	INDUCTION COIL	1	
L9501	G1A100ZA0007	CHOKE COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L9502	G1C150KA0038	INDUCTION COIL	1	
L9601-04	J0JHC0000096	CHIP INDUCTOR	4	
MC303	IXMM584M-C-9	MODULE	1	⚠
MC401	IXMM584M-D-9	MODULE	1	⚠
MC601	MP00P4	MODULE	1	⚠
MC602	IXMM584M-J-9	MODULE	1	⚠
MC604	MP00P6	MODULE	1	⚠
MC605	IXMM584M-H-9	MODULE	1	⚠
MC701	IXMM584M-E-9	MODULE	1	⚠
MC801	IXMM584M-G-9	MODULE	1	⚠
MC901	IXMM584M-H-9	MODULE	1	⚠
MC902	IXMM584M-F-9	MODULE	1	⚠
MC1601	MP00P3	MODULE	1	⚠
MC1602	IXMM584M-J-9	MODULE	1	⚠
MC1604	MP00P5	MODULE	1	⚠
MC301,02	MP44S2	MODULE	2	⚠
P2	B02P-NV	CONNECTOR	1	
P5	B11B-PH-KS	CONNECTOR	1	
P9	B3P-VL	CONNECTOR	1	⚠
P10	B6B-PH-KS	CONNECTOR	1	
P11	B02P-NV	CONNECTOR	1	
P12	B10B-PH-KS	CONNECTOR	1	
P23	B3B-PH-KS	CONNECTOR	1	
P25	B20B-PHDSS	CONNECTOR	1	
P30	B5B-PH-KS	CONNECTOR	1	
PB30	K1KA05AA0193	5P CONNECTOR	1	
PB31-35	K1KA03AA0192	3P CONNECTOR	5	
PB37,38	K1KA03AA0193	3P CONNECTOR	2	
PC901	S2581AL2	OPTOISOLATOR	1	⚠
PC6422-25	B3PBA0000223	IC	4	
PC6601	B3PBA0000234	IC	1	
PC6602	B3PBA0000233	IC	1	
PC6604	B3PBA0000234	IC	1	
PC6605	B3PBA0000233	IC	1	
PC6607	B3PBA0000233	IC	1	
PC6813	B3PBA0000223	IC	1	
PC6819	B3PBA0000223	IC	1	
Q332	2SD2098	TRANSISTOR	1	
Q333	2SB1386RT100	TRANSISTOR	1	
Q402	2SB766A	TRANSISTOR	1	
Q451-54	HAT1130R	FIELD EFFECT TRANSISTOR	4	
Q602	2SD2098	TRANSISTOR	1	
Q603	2SB1386RT100	TRANSISTOR	1	
Q605	2SB709A	TRANSISTOR	1	
Q606	2SD601A	TRANSISTOR	1	
Q703	2SB766A	TRANSISTOR	1	
Q850	2SC3311A	TRANSISTOR	1	
Q951	2SB709A	TRANSISTOR	1	
Q952-54	HAT1130R	FIELD EFFECT TRANSISTOR	3	

[illegible]	[illegible]	FIELD EFFECT TRANSISTOR	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q955,56	2SB1219A	TRANSISTOR	2	
Q1540	2SD601A	TRANSISTOR	1	
Q1601	2SK3302	FIELD EFFECT TRANSISTOR	1	⚠
Q1602	2SD2098	TRANSISTOR	1	
Q1603	2SB1386RT100	TRANSISTOR	1	
Q1605	2SB709A	TRANSISTOR	1	
Q1606	2SD601A	TRANSISTOR	1	
Q2300	B1BBCF000028	TRANSISTOR	1	
Q2331	B1BBCF000028	TRANSISTOR	1	
Q2333,34	2SD601A	TRANSISTOR	2	
Q2370,71	2SB709A	TRANSISTOR	2	
Q2372	2SD601A	TRANSISTOR	1	
Q3001	2SB709A	TRANSISTOR	1	(J)
Q3001	2SD601A	TRANSISTOR	1	(HA)
Q3002	2SD601A	TRANSISTOR	1	(HB)
Q3002	2SD601A	TRANSISTOR	1	
Q3003	2SD601A	TRANSISTOR	1	(HB)
Q3004	2SD601A	TRANSISTOR	1	
Q3005	2SD601A	TRANSISTOR	1	
Q3006,07	2SB709A	TRANSISTOR	2	
Q3023	2SD601A	TRANSISTOR	1	
Q3051,52	2SD601A	TRANSISTOR	2	
Q3101	2SD601A	TRANSISTOR	1	(J)
Q3101	2SB709A	TRANSISTOR	1	(HB)
Q3102	2SD1030	TRANSISTOR	1	(HB)
Q3102,03	2SD601A	TRANSISTOR	2	(J)
Q3104	2SD1030	TRANSISTOR	1	
Q3104-06	2SD601A	TRANSISTOR	3	
Q3531,32	2SD601A	TRANSISTOR	2	
Q6000-02	B1JADN000002	TRANSISTOR	3	
Q6010	B1ABNF000006	TRANSISTOR	1	
Q6011	B1ADNF000006	TRANSISTOR	1	
Q6020-22	B1JADN000002	TRANSISTOR	3	
Q6030	B1ABNF000006	TRANSISTOR	1	
Q6031	B1ADNF000006	TRANSISTOR	1	
Q6060	2SD601A	TRANSISTOR	1	
Q6100-05	B1JADN000002	TRANSISTOR	6	
Q6118	B1ABNF000006	TRANSISTOR	1	
Q6119	B1ADNF000006	TRANSISTOR	1	
Q6120	B1ABNF000006	TRANSISTOR	1	
Q6121	B1ADNF000006	TRANSISTOR	1	
Q6140-45	B1JADN000002	TRANSISTOR	6	
Q6160	B1ABNF000006	TRANSISTOR	1	
Q6161	B1ADNF000006	TRANSISTOR	1	
Q6162	B1ABNF000006	TRANSISTOR	1	
Q6163	B1ADNF000006	TRANSISTOR	1	
Q6200	2SK326900L	FET	1	
Q6202	2SK326900L	FET	1	
Q6210	B1ABNF000006	TRANSISTOR	1	
Q6211	B1ADNF000006	TRANSISTOR	1	
Q6212	B1ABNF000006	TRANSISTOR	1	
Q6213	B1ADNF000006	TRANSISTOR	1	
Q6221	B1DFKL000001	TRANSISTOR	1	
Q6223	B1DFKL000001	TRANSISTOR	1	

[illegible]	[illegible]	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6225	B1DFKL000001	TRANSISTOR	1	
Q6230	B1ABNF000006	TRANSISTOR	1	
Q6231	B1ADNF000006	TRANSISTOR	1	
Q6232	B1ABNF000006	TRANSISTOR	1	
Q6233	B1ADNF000006	TRANSISTOR	1	
Q6240	2SB1193000LB	TRANSISTOR	1	
Q6250-53	B1DFKM000002	TRANSISTOR	4	
Q6254	B1ABNF000006	TRANSISTOR	1	
Q6255	B1ADNF000006	TRANSISTOR	1	
Q6256	2SD1263A	TRANSISTOR	1	
Q6257	2SC1473A	TRANSISTOR	1	
Q6259	2SK326800L	FET	1	
Q6260	B1DFKM000002	TRANSISTOR	1	
Q6261	2SK620	FET	1	
Q6262	B1DFKM000002	TRANSISTOR	1	
Q6411	2SD601A	TRANSISTOR	1	
Q6412,13	2SK620	FET	2	
Q6501-06	B1JADN000002	TRANSISTOR	6	
Q6513-18	B1JADN000002	TRANSISTOR	6	
Q6531-33	B1JADN000002	TRANSISTOR	3	
Q6537-39	B1JADN000002	TRANSISTOR	3	
Q6543-46	2SK349400L	FET	4	
Q6551	B1ABNF000006	TRANSISTOR	1	
Q6552	B1ADNF000006	TRANSISTOR	1	
Q6553	B1ABNF000006	TRANSISTOR	1	
Q6554	B1ADNF000006	TRANSISTOR	1	
Q6559	B1ABNF000006	TRANSISTOR	1	
Q6560	B1ADNF000006	TRANSISTOR	1	
Q6561	B1ABNF000006	TRANSISTOR	1	
Q6562	B1ADNF000006	TRANSISTOR	1	
Q6567	B1ABNF000006	TRANSISTOR	1	
Q6568	B1ADNF000006	TRANSISTOR	1	
Q6571	B1ABNF000006	TRANSISTOR	1	
Q6572	B1ADNF000006	TRANSISTOR	1	
Q6575	B1ABNF000006	TRANSISTOR	1	
Q6576	B1ADNF000006	TRANSISTOR	1	
Q6577	2SD601A	TRANSISTOR	1	
Q6601	B1DEDS000001	TRANSISTOR	1	
Q6602	B1DEET000002	TRANSISTOR	1	
Q6604	2SK389500L	FET	1	
Q6611-26	B1DFJM000003	TRANSISTOR	16	
Q6630-45	B1DFKM000001	TRANSISTOR	16	
Q6650-53	B1DEDS000001	TRANSISTOR	4	
Q6654	2SK389500L	FET	1	
Q6655	2SD601A	TRANSISTOR	1	
Q6656,57	B1ADNF000006	TRANSISTOR	2	
Q6658,59	2SK620	FET	2	
Q6660	B1ABNF000006	TRANSISTOR	1	
Q6661	B1ADNF000006	TRANSISTOR	1	
Q6662	B1ABNF000006	TRANSISTOR	1	
Q6663	B1ADNF000006	TRANSISTOR	1	
Q6664	2SD601A	TRANSISTOR	1	
Q6665	B1ABNF000006	TRANSISTOR	1	
Q6666,67	2SK620	FET	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6668	B1ABNF000006	TRANSISTOR	1	
Q6669	B1ADNF000006	TRANSISTOR	1	
Q6670	2SK620	FET	1	
Q6811	2SD1263A	TRANSISTOR	1	
Q6812	2SB940A	TRANSISTOR	1	
Q6813	2SC1473A	TRANSISTOR	1	
Q6814	2SD1263A	TRANSISTOR	1	
Q6815	2SC1473A	TRANSISTOR	1	
Q6816	B1BBCJ000004	TRANSISTOR	1	
Q6817	2SD601A	TRANSISTOR	1	
Q6818	2SB0709A	TRANSISTOR	1	
Q6819	2SD1263A	TRANSISTOR	1	
Q6820	2SC1473A	TRANSISTOR	1	
Q6821	2SD814A	TRANSISTOR	1	
Q6822,23	2SD601A	TRANSISTOR	2	
Q6825	2SD601A	TRANSISTOR	1	
Q8001,02	2SD601A	TRANSISTOR	2	
Q8010	2SD601A	TRANSISTOR	1	
Q8011	2SB709A	TRANSISTOR	1	
Q8012	2SD601A	TRANSISTOR	1	
Q8013	2SB709A	TRANSISTOR	1	
Q8018,19	2SD601A	TRANSISTOR	2	
Q8181-84	2SK2731T146	FET	4	
Q8200-02	2SD601A	TRANSISTOR	3	
Q9074	2SK2731T146	FET	1	
Q9076	2SD601A	TRANSISTOR	1	
Q9078	2SD601A	TRANSISTOR	1	
Q9201,02	2SD601A	TRANSISTOR	2	
Q9300-04	2SD601A	TRANSISTOR	5	
Q9500,01	B1MBCDA00002	TRANSISTOR	2	
Q9502	B1ABMD000004	TRANSISTOR	1	
Q9703-07	2SD601A	TRANSISTOR	5	
Q9708	2SK2731T146	FET	1	
Q9709-13	2SD601A	TRANSISTOR	5	
Q9951	2SD601A	TRANSISTOR	1	
R320	ERJ14YJ124	CHIP RESISTOR	1	
R321-23	MPC5WR33K	METAL PLATE RESISTOR	3	
R325	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R326-29	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R330	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R336	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R339	ERG1SJ330	M 33 OHM, J, 1W	1	
R340,41	ERG2FJS473D	M 47KOHM, J, 2W	2	
R342	ERJ6ENF2000	M 200 OHM, 1/10W	1	
R344	ERG1SJ330	M 33 OHM, J, 1W	1	
R346,47	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R349	ERJ12YJ220	M 22 OHM,J, 1/2W	1	
R350-53	ERJ6ENF3162	M31.6KOHM, 1/10W	4	
R358	ERG2SJW150	METAL OXIDE FILM RESISTOR	1	
R359	ERJ14YJ124	CHIP RESISTOR	1	
R360	ERG2SJW150	METAL OXIDE FILM RESISTOR	1	
R361	ERJ14YJ124	CHIP RESISTOR	1	
R364	ERG2SJW683	METAL OXIDE FILM RESISTOR	1	
R368	ERJ6ENF3652	CHIP RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R369-71	ERJ6GEYJ823	M 82KOHM,J,1/10W	3	
R373-76	ERJ14YJ124	CHIP RESISTOR	4	
R386-91	ERJ6ENF2373	CHIP RESISTOR	6	
R397-99	ERJ14YJ124	CHIP RESISTOR	3	
R405	MPC5WR47KS	METAL PLATE RESISTOR	1	
R406	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R407	ERJ14YJ334	M 330KOHM, 1/2W	1	
R408	SG734K271	CHIP RESISTOR	1	
R410	ERJ14YJ332	M 33KOHM, J,1/4W	1	
R411	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R412	ERJ14YJ472	M 4.7KOHM,J, 1/2W	1	
R413,14	ERJ14YJ334	M 330KOHM, 1/2W	2	
R415,16	ERJ6ENF2373	CHIP RESISTOR	2	
R426	ERJ14YJ470	M 47 OHM,J, 1/2W	1	
R429-32	ERJ6ENF2373	CHIP RESISTOR	4	
R433	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R456	ERJ6ENF4302	M 43KOHM, 1/10W	1	
R457,58	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R459	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R460	ERG2SJ331	METAL OXIDE RESISTOR	1	
R461,62	ERJ6ENF4302	M 43KOHM, 1/10W	2	
R464	ERJ6ENF4302	M 43KOHM, 1/10W	1	
R473	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R475,76	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R480	ERG2SJ561	M 560 OHM, J, 2W	1	
R482	ERJ6GEYJ203	M 20KOHM,J,1/10W	1	
R483,84	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	2	
R485	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R602,03	5K150JA	WIREWOUND RESISTOR	2	
R604	ERC12UGK185	CARBON COMPOSITION RESISTOR	1	
R609-12	ERJ6ENF1213	M 121KOHM, 1/10W	4	
R613,14	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R615-17	MPC5WR15K	METAL PLATE RESISTOR	3	
R619	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R620	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R621	ERJ12YJ151	M 150 OHM,J, 1/2W	1	
R622	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R624	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R625	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R626	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R628	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R629	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R630	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R631	MPC5WR15K	METAL PLATE RESISTOR	1	
R632,33	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R634-38	ERJ6ENF2553	M 255KOHM, 1/10W	5	
R640,41	ERJ6ENF5493	M 549KOHM, 1/10W	2	
R642	ERJ6ENF2553	M 255KOHM, 1/10W	1	
R644	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R646	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R649	ERJ6ENF5493	M 549KOHM, 1/10W	1	
R653-55	ERJ6GEYJ183	M 18KOHM,J,1/10W	3	
R677	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R678	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R679	ERJ12YJ151	M 150 OHM,J, 1/2W	1	
R705	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R706	ERJ14YJ334	M 330KOHM, 1/2W	1	
R707	ERJ14YJ470	M 47 OHM,J, 1/2W	1	
R708	ERJ14YJ334	M 330KOHM, 1/2W	1	
R709	MPC5WR56KS	METAL PLATE RESISTOR	1	
R711	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R714	ERJ14YJ334	M 330KOHM, 1/2W	1	
R715	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R716	SG734K271	CHIP RESISTOR	1	
R717	ERJ14YJ332	M 33KOHM, J,1/4W	1	
R726	ERJ12YJ472	M 4.7KOHM,J, 1/2W	1	
R729-33	ERJ6ENF1052	M10.5KOHM, 1/10W	5	
R734	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R735	ERJ12YJ473	M 47KOHM,J, 1/2W	1	
R7354,55	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R736	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R741	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R801	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R802	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R803	ERJ3EKF9102	M91.0KOHM, 1/16W	1	
R804	ERJ3GEYJ394	M 390KOHM,J,1/16W	1	
R805	ERJ3EKF8452	M84.5KOHM, 1/16W	1	
R806	ERJ3EKF1052	M10.5KOHM, 1/16W	1	
R810	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R811	ERJ3EKF9102	M91.0KOHM, 1/16W	1	
R812	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R813	ERJ3EKF4222	M42.2KOHM, 1/16W	1	
R814	ERJ3EKF1052	M10.5KOHM, 1/16W	1	
R815	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R816,17	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R818	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R819	ERJ3EKF9102	M91.0KOHM, 1/16W	1	
R820	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R821	ERJ3EKF2432	M24.3KOHM, 1/16W	1	
R822	ERJ3EKF1052	M10.5KOHM, 1/16W	1	
R823	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R824	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R825-27	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	3	
R850	ER0S2CKF4701	M 4.7KOHM, F,1/4W	1	
R851	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R852	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R853	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R854-58	ERDS2TJ122	C 1.2KOHM, J,1/4W	5	
R860,61	ERDS2TJ122	C 1.2KOHM, J,1/4W	2	
R862	ER0S2CHF7501	M 7.5KOHM, F,1/4W	1	
R863	ER0S2CKF9100	M 910 OHM, F,1/4W	1	
R901	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R902	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R903	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R904	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R905	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R906	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R907,08	ERJ14YJ104	M 100KOHM, J,1/4W	2	
R955	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R957	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R958	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R959	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R960	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R961	ERG2FJS820D	M 82 OHM, J, 2W	1	
R962	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R963	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R964	ERG2FJS820D	M 82 OHM, J, 2W	1	
R965	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R966	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R967	ERJ12YJ121	M 120 OHM,J, 1/2W	1	
R1500	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1510	ERJ3GEYF222	M 2.2KOHM, 1/16W	1	
R1511	ERJ3GEYF302	M 3.0KOHM, 1/16W	1	
R1512	ERJ3GEYF472	M 4.7KOHM, 1/16W	1	
R1513	ERJ3GEYF822	M 8.2KOHM,J,1/16W	1	
R1550	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1551	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R1552	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R1553	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1554	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R1602,03	5K150JA	WIREWOUND RESISTOR	2	
R1604,05	ERDS1TJ474	C 4.7KOHM, J,1/2W	2	
R1606	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1607	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R1609-12	ERJ6ENF1213	M 121KOHM, 1/10W	4	
R1613,14	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R1615-17	MPC5WR27KS	METAL PLATE RESISTOR	3	
R1620	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R1621	ERJ12YJ151	M 150 OHM,J, 1/2W	1	
R1623	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1624	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R1625	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R1626	ERJ12YJ680	M 68 OHM,J, 1/2W	1	
R1627	ERJ12YJ151	M 150 OHM,J, 1/2W	1	
R1628	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1629	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R1630	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R1632,33	ERJ6GEYJ154	M 150KOHM,J,1/10W	2	
R1634	ERJ6ENF2103	M 210KOHM, 1/10W	1	
R1635-38	ERJ6ENF2553	M 255KOHM, 1/10W	4	
R1640,41	ERJ6ENF5493	M 549KOHM, 1/10W	2	
R1642	ERJ6ENF2553	M 255KOHM, 1/10W	1	
R1644	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R1646	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R1649	ERJ6ENF5493	M 549KOHM, 1/10W	1	
R1653-55	ERJ6GEYJ183	M 18KOHM,J,1/10W	3	
R1656-59	ERJ6GEYJ274	M 270KOHM,J,1/10W	4	
R1681,82	ERJ6GEYJ274	M 270KOHM,J,1/10W	2	
R1683	ERC12UGK685	CARBON COMPOSITION RESISTOR	1	
R2351-54	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2355-60	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2365	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R2367	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2368,69	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2370	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2371,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2374	ERX1FJSR56D	M0.56 OHM, J, 1W	1	
R2376	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2377	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2383	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2384	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2385	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2386	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2387	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2388	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2389-92	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2393	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R2394-96	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R2397	ERJ6GEYJ512	M 5.1KOHM,J,1/10W	1	
R2398	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2399,00	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2404-07	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2408-11	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R2412	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2413	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2414	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R2415	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2416	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2417	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R2418,19	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R2420	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2421,22	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R2423	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2426	ERDS2TJ471T	C 470 OHM, J,1/4W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HB)
R3002	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3002	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HB)
R3003	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3003	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HB)
R3004	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3004	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HA)
R3004	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HB)
R3005	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(J)
R3005	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HA)
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HB)
R3006	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(J)
R3006	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3006	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HB)
R3007	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3007	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3007	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	(HB)
R3008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3009	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3010	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3010	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HB)
R3011	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	(J)
R3011	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HB)
R3012	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3012	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	(HB)
R3013	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	(J)
R3013	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3014	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3014	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3014	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	(HB)
R3015	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3015	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3015	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3016	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3016	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3016	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3017	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3017	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3017	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3018	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3018	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3018	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3019	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3019	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3019	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3020	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3020	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3021	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3021	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3022	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3022	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HA)
R3022	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3023	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3023	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HA)
R3023	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HB)
R3024	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3024	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3025	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	(J)
R3025	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3025	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3026	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HA)
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HB)
R3027	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3027,28	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	(J)
R3028	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3029	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3029	ERJ3EKF2200	M 220 OHM, 1/16W	1	(HB)
R3030	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3030	ERJ3EKF3900	M 390 0HM, 1/16W	1	(HB)
R3031	J0JCC0000100	CHIP INDUCTOR	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3031	ERJ3EKF4700	M 470 OHM, 1/16W	1	(HB)
R3032	ERJ3EKF1200	M 120 OHM, 1/16W	1	(HB)
R3032,33	J0JCC0000100	CHIP INDUCTOR	2	(J)
R3033	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3034	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	(J)
R3035	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3036	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	(J)
R3036	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3036	ERJ6ENF1800	M 180 OHM, 1/10W	1	(HB)
R3037	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3037	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HA)
R3037	ERJ3EKF2200	M 220 OHM, 1/16W	1	(HB)
R3038	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3038	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	(HB)
R3039	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3040	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	(J)
R3040	ERJ3EKF3300	M 330 OHM, 1/16W	1	(HB)
R3041	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	(J)
R3041	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HA)
R3041	ERJ3EKF1800	M 180 OHM, 1/16W	1	(HB)
R3042	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3042	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HA)
R3042	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	(HB)
R3043	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3043	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HB)
R3044	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3044	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3045	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3046	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3046	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3047	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3048	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3048	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3049	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3050	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3050	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HB)
R3051	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3051	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3052	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3052	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3053	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3053	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HB)
R3054	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3054	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3055	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3055	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HB)
R3056	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	(J)
R3056	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HB)
R3057	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3057	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3058	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3058	TAJAAH0101JV	M 100 OHM,J,1/16W	1	(HB)
R3059	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3061	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3061	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HB)
R3062	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3062	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HB)
R3063	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3064	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3065	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HB)
R3065-69	ERJ6GEYJ560	M 56 OHM,J,1/10W	5	(J)
R3070-75	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3076-81	ERJ6GEYJ560	M 56 OHM,J,1/10W	6	
R3082,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R3084,85	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3086,87	J0JCC0000100	CHIP INDUCTOR	2	
R3088-93	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3094-96	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3097,98	J0JCC0000100	CHIP INDUCTOR	2	
R3099,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3101	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3101	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3102	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3102,03	ERJ6ENF1800	M 180 OHM, 1/10W	2	(J)
R3104	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3104,05	ERJ6ENF1800	M 180 OHM, 1/10W	2	(J)
R3106	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R3106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3107	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R3107	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R3108	J0JCC0000100	CHIP INDUCTOR	1	
R3108	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3109	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R3110	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3111	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R3112	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3112	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R3113	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R3113	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R3114	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3115	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3116	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3116	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HB)
R3117	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3117	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HB)
R3118	ERJ6ENF8200	M 820 OHM, 1/10W	1	(J)
R3118	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3119	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R3120	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3121	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R3122	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	
R3123	ERJ3EKF1502	M 15KOHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3124	ERJ3EKF10R0	M 10 OHM, 1/16W	1	
R3125	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	(J)
R3125	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3126	J0JCC0000100	CHIP INDUCTOR	1	
R3127	J0JCC0000100	CHIP INDUCTOR	1	
R3127	ERJ6ENF12R0	M 12 OHM, 1/10W	1	
R3128,29	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(J)
R3129	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HB)
R3130,31	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R3131	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R3132,33	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R3134	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R3134	ERJ6ENF10R0	M 10 OHM, 1/10W	1	
R3135	ERJ6ENF10R0	M 10 OHM, 1/10W	1	
R3136-39	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3140	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3140	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3141	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3141	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3142,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3143,44	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R3145	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3147	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R3148	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3148	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3149	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	(J)
R3149	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3150,51	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	(J)
R3151	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HB)
R3152	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3152	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HB)
R3153	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3154,55	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R3156	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3157	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3158	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R3159	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3160	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3160	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HB)
R3161	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3161	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HB)
R3162	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3162	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3163	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3163	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3164-67	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3168	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R3169-72	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3173	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R3174	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3177	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3178	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3179	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3180	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3181	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3182	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3183	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3184	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3185	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3188	ERJ6ENF39R0	M 39 OHM, 1/10W	1	
R3189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HB)
R3189,90	ERJ6ENF39R0	M 39 OHM, 1/10W	2	(J)
R3192,93	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3194,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3195,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3197,98	ERJ3GEYJ123	M 12KOHM,J,1/16W	2	
R3199-04	ERJ6ENF1800	M 180 OHM, 1/10W	6	
R3210,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3212-15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R3216-19	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3230,31	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3251	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R3252	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3253	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3254,55	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3260-62	ERJ6ENF39R0	M 39 OHM, 1/10W	3	
R3300,01	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R3302	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3303,04	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3305	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3308,09	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3313	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3314,15	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3319	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3337,38	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3508,09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3529,30	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3547,48	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R356,57	ERJ14YJ124	CHIP RESISTOR	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3591-93	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R366,67	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	2	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3790,91	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6000-05	ERJ14YJ100	M 10 OHM, J,1/4W	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6012	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6013	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6014,15	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6020-25	ERJ14YJ100	M 10 OHM, J,1/4W	6	
R6032	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6033	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6034,35	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6040-43	ERJ6GEYJ151	M 150 OHM,J,1/10W	4	
R6047,48	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6052	ERJ6ENF1182	M11.8KOHM, 1/10W	1	
R6053-58	ERJ6GEYJ151	M 150 OHM,J,1/10W	6	
R6060	EXB38V470J	RESISTOR ARRAY	1	
R6061	EXB38V472J	RESISTOR ARRAY	1	
R6062	EXB38V470J	RESISTOR ARRAY	1	
R6063	EXB38V472J	RESISTOR ARRAY	1	
R6064,65	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6066	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6067,68	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6069	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6070,71	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6072	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6073,74	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6075,76	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6079	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6080	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R6081,82	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6090	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6100-11	ERJ14YJ100	M 10 OHM, J,1/4W	12	
R6122	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6123,24	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6125	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6126,27	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6130	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6136	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6137	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6138,39	ERJ6ENF8202	M 82KOHM, 1/10W	2	
R6140-51	ERJ14YJ100	M 10 OHM, J,1/4W	12	
R6176	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6177	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6178,79	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6180	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6181,82	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6192	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R6193	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6195,96	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6197,98	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6199	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6200	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R6202	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R6210	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6211,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6213	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6214,15	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6216,17	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6219	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6221	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R6223	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R6225	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R6227	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R6228	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6229	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6231	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R6232	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6233,34	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6235	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6236,37	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6238,39	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6240	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R6241	ERJ6ENF1072	M10.7KOHM, 1/10W	1	
R6242	ERJ6ENF4991	M4.99KOHM, 1/10W	1	
R6243	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R6244	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R6245	ERJ6ENF5901	M 5.9KOHM, 1/10W	1	
R6246	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6247,48	ERF15ZXJ271	W 270 OHM, 15W	2	
R6249	ERJ6ENF1182	M11.8KOHM, 1/10W	1	
R6250-53	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6254	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6255	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6257	ERF15ZXJ271	W 270 OHM, 15W	1	
R6258	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6259,60	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6261	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6263	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6264	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6265	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6266	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6267,68	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6269	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6270	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6271,72	ERG3FJS101D	M 100 OHM, J, 3W	2	
R6274	ERG1FJS103D	M 10KOHM, J, 1W	1	
R6275	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6276-78	ERJ6GEYJ223	M 22KOHM,J,1/10W	3	
R6281	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6282-84	ERJ6GEYJ273	M 27KOHM,J,1/10W	3	
R6285	ERF15ZXJ271	W 270 OHM, 15W	1	
R6287	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6288,89	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6290,91	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6292	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6293	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6294	ERF15ZXJ271	W 270 OHM, 15W	1	
R6298	EXB38V470J	RESISTOR ARRAY	1	
R6299	EXB38V472J	RESISTOR ARRAY	1	
R6361-68	ERJ6GEYJ151	M 150 OHM,J,1/10W	8	
R6374	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R6375	ERJ6ENF2702	M 27KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6376	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6377	ERJ6ENF8202	M 82KOHM, 1/10W	1	
R6378	ERJ6ENF5762	M57.6KOHM, 1/10W	1	
R6379	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R6380	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6382,83	ERX12SJ1R2	M 1.2 OHM, J,1/2W	2	
R6385	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R6386	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	1	
R6387	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6388	ERG2FJS563D	M 56KOHM, J, 2W	1	
R6390	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6391-98	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6415	EXB38V470J	RESISTOR ARRAY	1	
R6416	EXB38V472J	RESISTOR ARRAY	1	
R6417	EXB38V470J	RESISTOR ARRAY	1	
R6418	EXB38V472J	RESISTOR ARRAY	1	
R6419	EXB38V470J	RESISTOR ARRAY	1	
R6420	EXB38V472J	RESISTOR ARRAY	1	
R6421	EXB38V470J	RESISTOR ARRAY	1	
R6422	EXB38V472J	RESISTOR ARRAY	1	
R6424	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6429,30	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6431,32	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6433	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6434,35	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6436	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6437,38	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6439	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R6440,41	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6442	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6444-48	ERJ6GEYJ471	M 470 OHM,J,1/10W	5	
R6449	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6450	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6451	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6452,53	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R6454	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6455-57	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	3	
R6458	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6459	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6461	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6462	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6463	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6464	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R6465	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6466	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R6467	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6468	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6469	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6470	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6471,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6473,74	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6475	ERJ6GEYF103	M 10KOHM,F,1/10W	1	
R6476	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6477	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6478-83	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	6	
R6484	EXB38V470J	RESISTOR ARRAY	1	
R6488	EXB38V470J	RESISTOR ARRAY	1	
R6501-12	ERJ14YJ100	M 10 OHM, J,1/4W	12	
R6525-36	ERJ14YJ100	M 10 OHM, J,1/4W	12	
R6561	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6562	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6563	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6564	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6569,70	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6573	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6574	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6575	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6576	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581,82	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6585,86	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6601,02	ERF2TK2R2	W 2.2 OHM, K, 2W	2	
R6603-05	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R6606	ERF2TK2R2	W 2.2 OHM, K, 2W	1	
R6611	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6612	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6613	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6614	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R6615,16	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6617	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6618	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6619,20	ERJ6GEYJ105	M 1MOHM,J,1/10W	2	
R6621	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R6622	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6623	ERJ6GEYJ680	M 68 OHM,J,1/10W	1	
R6624	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6625-39	ERJ6GEYJ470	M 47 OHM,J,1/10W	15	
R6642	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6653,54	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6655,56	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6657	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6658-61	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6662	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6664	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6667	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6668	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6669	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6671	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6674	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6675	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6684-89	ERJ14YJ100	M 10 OHM, J,1/4W	6	
R6696-01	ERJ14YJ100	M 10 OHM, J,1/4W	6	
R6711	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6712	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6713	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6714	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6715	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6716-31	ERJ6GEYJ101	M 100 OHM,J,1/10W	16	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6735-37	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6738	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6739	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R6740	ERJ6GEYJ203	M 20KOHM,J,1/10W	1	
R6741	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6742	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6743	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6744,45	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6746	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6747,48	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6751-54	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	4	
R6755	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6756	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6757	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6758	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6759	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6760	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6761	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6762	ERG1FJS101D	M 100 OHM, J, 1W	1	
R6763,64	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6802	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6803	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6804,05	ERJ6GEYJ563	M 56KOHM,J,1/10W	2	
R6806	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6807-09	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R6810	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6811	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R6812	ERG1FJS103D	M 10KOHM, J, 1W	1	
R6813	ERJ12YJ101	M 100 OHM,J, 1/2W	1	
R6814	ERG2FJS223D	M 22KOHM, J, 2W	1	
R6817,18	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R6819	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6820	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6821	ERG2FJS820D	M 82 OHM, J, 2W	1	
R6823	ERF2TK8R2	W 8.2 OHM, K, 2W	1	
R6824	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6825,26	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6827	ERG3FJS471D	M 470 OHM, J, 3W	1	
R6828,29	ERJ12YJ104U	M 100KOHM, 1/2W	2	
R6830	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6831,32	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6833	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
R6834	ERJ6ENF4991	M4.99KOHM, 1/10W	1	
R6835,36	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6837	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6838	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6839	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6840,41	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6842	ERJ6ENF1543	M 154KOHM, 1/10W	1	
R6843	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6844	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6845	ERF2TK8R2	W 8.2 OHM, K, 2W	1	
R6846	ERX3FJS8R2D	M 8.2 OHM, J, 3W	1	
R6847	ERG2FJS683D	M 68KOHM, J, 2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6848	ERDS1FJ4R7	C 4.7 OHM, J,1/2W	1	
R6849,50	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6851	ERJ12YJ103	M 10KOHM,J, 1/2W	1	
R6852	ERG2FJS101D	M 100 OHM, J, 2W	1	
R6853	ERJ12YJ153U	M 15KOHM, 1/2W	1	
R6854	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6855	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R6856	ERJ6ENF5762	M57.6KOHM, 1/10W	1	
R6857,58	ERJ6ENF2491	M2.49KOHM, 1/10W	2	
R6859	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6860	ERF2TK8R2	W 8.2 OHM, K, 2W	1	
R6861	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6862	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R6863	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R6864	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6866,67	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6869	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6870	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6871	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6872,73	ERJ6GEYJ683	M 68KOHM,J,1/10W	2	
R6874	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R6876	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6877	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R6886	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R6887	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6888-90	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	3	
R6900	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6901	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6902	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6903	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6904-06	ERJ6GEYJ103	M 10KOHM,J,1/10W	3	
R6907	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6908	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6909-11	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R6920	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6921	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6922	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6923,24	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R6925	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6926	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6927	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6928	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6929,30	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6931	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R7101	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7102	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7104	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7107	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7109	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7111	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7113	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7115	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7116,17	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7119	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7121	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7122-24	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R7126	EXB38V470J	RESISTOR ARRAY	1	
R7127	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7128	EXB38V470J	RESISTOR ARRAY	1	
R7130	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7131	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7133	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7134-37	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7138-40	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R7141-46	EXB38V681J	RESISTOR ARRAY	6	
R7147	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7148	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7151,52	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7159-64	EXB38V470J	RESISTOR ARRAY	6	
R7171	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7173,74	EXB38V681J	RESISTOR ARRAY	2	
R7184,85	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7186	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7187	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7196,97	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7201,02	EXB38V681J	RESISTOR ARRAY	2	
R7203	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7204-07	EXB38V470J	RESISTOR ARRAY	4	
R7208,09	EXB38V681J	RESISTOR ARRAY	2	
R7210	EXB38V470J	RESISTOR ARRAY	1	
R7211	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7212,13	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7214	EXB38V470J	RESISTOR ARRAY	1	
R7215	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7217,18	EXB38V681J	RESISTOR ARRAY	2	
R7221,22	EXB38V470J	RESISTOR ARRAY	2	
R7224	EXB38V681J	RESISTOR ARRAY	1	
R7225	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7227	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7228	EXB38V470J	RESISTOR ARRAY	1	
R7230	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7232,33	EXB38V681J	RESISTOR ARRAY	2	
R7235	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7236,37	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7238	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7244	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7247,48	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7250	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7251	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7252-55	EXB38V681J	RESISTOR ARRAY	4	
R7256	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7257-60	EXB38V681J	RESISTOR ARRAY	4	
R7262	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7263	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7266	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7267	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7269	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7270,71	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7272,73	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7274,75	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7276,77	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7278,79	EXB38V470J	RESISTOR ARRAY	2	
R7280,81	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7282,83	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7284,85	EXB38V681J	RESISTOR ARRAY	2	
R7286,87	EXB38V470J	RESISTOR ARRAY	2	
R7288	EXB38V681J	RESISTOR ARRAY	1	
R7289-91	EXB38V470J	RESISTOR ARRAY	3	
R7292,93	EXB38V681J	RESISTOR ARRAY	2	
R7294-99	EXB38V470J	RESISTOR ARRAY	6	
R7301,02	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7303-10	EXB38V470J	RESISTOR ARRAY	8	
R7311,12	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7322	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7323	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7330,31	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7337-40	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7341,42	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7343	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7345,46	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7347	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7360,61	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7364,65	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7366,67	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7373,74	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7377,78	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7381,82	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7383,84	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7385	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7386	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7387	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7392-99	EXB38V681J	RESISTOR ARRAY	8	
R7401	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7402,03	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7404	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7405-08	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7409-12	TAJAAH0470JV	M 47 OHM,J,1/16W	4	
R7413-20	EXB38V470J	RESISTOR ARRAY	8	
R7430,31	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7434,35	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7438,39	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7442,43	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7444	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7446,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7460,61	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7464,65	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7468,69	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7470,71	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7472	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7477,78	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7481,82	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7485,86	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7487,88	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7490	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7492-99	EXB38V681J	RESISTOR ARRAY	8	
R7501,02	EXB38V681J	RESISTOR ARRAY	2	
R7503	EXB38V470J	RESISTOR ARRAY	1	
R7504,05	EXB38V681J	RESISTOR ARRAY	2	
R7506-08	EXB38V470J	RESISTOR ARRAY	3	
R7509-12	EXB38V681J	RESISTOR ARRAY	4	
R7513-16	EXB38V470J	RESISTOR ARRAY	4	
R7517,18	EXB38V681J	RESISTOR ARRAY	2	
R7519,20	EXB38V470J	RESISTOR ARRAY	2	
R7521-24	EXB38V681J	RESISTOR ARRAY	4	
R7525-28	EXB38V470J	RESISTOR ARRAY	4	
R7529,30	EXB38V681J	RESISTOR ARRAY	2	
R7531,32	EXB38V470J	RESISTOR ARRAY	2	
R7533,34	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7535-37	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R7538	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7539	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7540	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7542	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7544	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7546	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7548	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7549	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7550,51	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7552,53	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7555	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7557	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7558	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7560	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7562	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7563	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7564-69	EXB38V681J	RESISTOR ARRAY	6	
R7570-73	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7574,75	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7578-81	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7582,83	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7584-89	EXB38V470J	RESISTOR ARRAY	6	
R7600,01	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7602	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7603	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7604	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7604	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7605	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7605	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7606	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7607	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7607	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7609	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7611	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7613	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7613	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7614	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7615	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7615	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7616	EXB38V681J	RESISTOR ARRAY	1	
R7616	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7617	EXB38V681J	RESISTOR ARRAY	1	
R7617	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7618	EXB38V470J	RESISTOR ARRAY	1	
R7619	EXB38V470J	RESISTOR ARRAY	1	
R7619	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7620	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7624	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7628	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7632	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7634	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7637-42	EXB38V470J	RESISTOR ARRAY	6	
R7643-46	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7647-49	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R7650-55	EXB38V681J	RESISTOR ARRAY	6	
R7656	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7658	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7660	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7661	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7666	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7667,68	EXB38V470J	RESISTOR ARRAY	2	
R7669,70	EXB38V681J	RESISTOR ARRAY	2	
R7671	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R7672	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R7677	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7680	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7681	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R7685	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7686	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7687	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7701-06	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R7709,10	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R7711,12	ERJ3GEYJ681	M 680 OHM,J,1/16W	2	
R7713,14	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R7715	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R8001-08	J0JCC0000100	CHIP INDUCTOR	8	
R8009-16	ERJ3GEYJ271	M 270 OHM,J,1/16W	8	
R8017-20	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R8021,22	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8025	J0JCC0000100	CHIP INDUCTOR	1	
R8026	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R8027	J0JCC0000100	CHIP INDUCTOR	1	
R8028	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R8029,30	ERJ6ENF3001	M 3KOHM, 1/10W	2	
R8031,32	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R8033,34	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R8035	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R8036	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R8037-40	ERJ6ENF4701	M 4.7KOHM, 1/10W	4	
R8041,42	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8045,46	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8047	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8048-51	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8054	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8055,56	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R8057	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8058,59	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R8060	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R8061	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R8062	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8065	D0GB911JA002	M 910 OHM,J,1/16W	1	
R8066	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R8067,68	D0GB911JA002	M 910 OHM,J,1/16W	2	
R8069	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R8070	D0GB911JA002	M 910 OHM,J,1/16W	1	
R8071,72	J0JCC0000100	CHIP INDUCTOR	2	
R808,09	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8089	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R8091	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R8093,94	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8097-00	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R8117-20	J0JCC0000100	CHIP INDUCTOR	4	
R8121,22	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R8124-27	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R8129	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8131-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R8181	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R8182	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R8183,84	J0JCC0000100	CHIP INDUCTOR	2	
R8185,86	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R8187,88	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R8189,90	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8200	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R8201	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R8202,03	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R8204	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R8205	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R8206	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R8207	J0JCC0000100	CHIP INDUCTOR	1	
R9001-03	EXB2HVR000	RESISTOR ARRAY	3	
R9004	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9005	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9006	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R9007	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9009	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9010	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9011	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9012-14	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9016-19	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9020	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9021	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9023,24	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9028-30	ERJ3GEY0R00	M 0 OHM, 1/16W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9031	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9032	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9032	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9033	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9034	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9034	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9035-38	TAJAAH0101JV	M 100 OHM,J,1/16W	4	
R9039-42	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9043,44	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	2	
R9051-53	EXB2HVR000	RESISTOR ARRAY	3	
R9054	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9055	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9056	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R9057	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9058	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9059	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9060	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9061	ERJ3GEYJ390	M 39 OHM,J,1/16W	1	
R9062-64	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9066,67	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9070	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9071	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9073	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9088	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9094	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9101,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9104-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9108	EXB38V103J	RESISTOR ARRAY	1	
R9109	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9110,11	EXB38V103J	RESISTOR ARRAY	2	
R9112	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9114,15	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9116-26	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	11	
R9127	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9129,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9131,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9133,34	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9137	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9139	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9140	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9142	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9144	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9145	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9149	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9151,52	D1HG1038A002	NETWORK RESISTER	2	
R9156,57	EXB2HV470JV	RESISTOR ARRAY	2	
R9158	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9159	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9171	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9175	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9179	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9205	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9207	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9209	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9211-20	TAJAAH0101JV	M 100 OHM,J,1/16W	10	
R9221,22	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9223	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9225	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9227	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9229	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9237	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9238	EXB38V470J	RESISTOR ARRAY	1	
R9239	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9240-43	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9244	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9245	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9246,47	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9248	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9249	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9249	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9250-55	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9256-57	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9260	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9266	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9267	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9271-73	D1HG8208A002	NETWORK RESISTER	3	
R9274,75	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9276	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9277-79	D1HG8208A002	NETWORK RESISTER	3	
R9277-79	EXB2HV101JV	RESISTOR ARRAY	3	
R9280,81	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9282	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9283	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9284	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9286	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9287,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9289	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9290	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9293-95	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9296	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9297	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9388,89	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9390	EXB38V470J	RESISTOR ARRAY	1	
R9391-93	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9394,95	TAJAAH0470JV	M 47 OHM,J,1/16W	2	
R9396,97	EXB38V470J	RESISTOR ARRAY	2	
R9400-03	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9406,07	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9411	EXB2HV470JV	RESISTOR ARRAY	1	
R9412	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9413-17	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9418	EXB2HV470JV	RESISTOR ARRAY	1	
R9419	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9420	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9421,22	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9423	EXB2HV470JV	RESISTOR ARRAY	1	
R9424	EXB38V470J	RESISTOR ARRAY	1	
R9425,26	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9427	EXB2HV470JV	RESISTOR ARRAY	1	
R9428	EXB38V470J	RESISTOR ARRAY	1	
R9429,30	EXB2HV470JV	RESISTOR ARRAY	2	
R9431	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9432	EXB2HV470JV	RESISTOR ARRAY	1	
R9433	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9434	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9435	EXB2HV470JV	RESISTOR ARRAY	1	
R9436	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9437-40	EXB2HV470JV	RESISTOR ARRAY	4	
R9441,42	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9443	EXB38V470J	RESISTOR ARRAY	1	
R9444	EXB2HV470JV	RESISTOR ARRAY	1	
R9445	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9446,47	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9449	D1HG33080001	NETWORK RESISTER	1	
R9450	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R9451	D1HG33080001	NETWORK RESISTER	1	
R9453	D1HG33080001	NETWORK RESISTER	1	
R9457	D1HG33080001	NETWORK RESISTER	1	
R9459	D1HG33080001	NETWORK RESISTER	1	
R9461	D1HG33080001	NETWORK RESISTER	1	
R9463	D1HG33080001	NETWORK RESISTER	1	
R9466-68	D1HG1038A002	NETWORK RESISTER	3	
R9469-72	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9473	EXB38V470J	RESISTOR ARRAY	1	
R9474	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9475	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9476	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9477	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9478	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9479	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9480	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9481	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9482	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9484	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9485	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9486	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9487	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9488	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9489	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9490	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9491	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9492	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9493	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	
R9494	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R9495-98	ERJ6ENF1001	M 1KOHM, 1/10W	4	
R9499	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R951,52	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R953,54	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R9551,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9553	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9554	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9556	ERJ6ENF1001	M 1KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9557	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9558	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9559	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9560	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9562	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9567,68	EXB2HV470JV	RESISTOR ARRAY	2	
R9569	EXB38V470J	RESISTOR ARRAY	1	
R9570,71	EXB2HV470JV	RESISTOR ARRAY	2	
R9589	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9591	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9592,93	ERJ3EKF8201	M 8.2KOHM, 1/16W	2	
R9594	ERJ3EKF3002	M 30KOHM, 1/16W	1	
R9595	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R9596	ERJ3EKF2322	M23.2KOHM, 1/16W	1	
R9597	ERJ3EKF4702	M 47KOHM, 1/16W	1	
R9599	ERJ3EKF2402	M 24KOHM, 1/16W	1	
R9600	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R9602	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9603	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9604	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9605,06	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9607	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9608	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9609	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9610	ERJL14KJ20M	M 20 OHM, J,1/4W	1	
R9611	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9612	ERJL14KJ20M	M 20 OHM, J,1/4W	1	
R9613	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9614	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9616	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9618,19	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9620	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	
R9621	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R9622,23	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9624-26	TAJAAH0470JV	M 47 OHM,J,1/16W	3	
R9627,28	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9629,30	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9633	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9636	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9638	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9642	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9644	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9647	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9651	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9653,54	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9656-59	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9660,61	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9662	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9663-65	EXB38V470J	RESISTOR ARRAY	3	
R9668,69	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9670	EXB38V470J	RESISTOR ARRAY	1	
R9671,72	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9675-78	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9679,80	EXB38V470J	RESISTOR ARRAY	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9684-86	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9687	EXB38V470J	RESISTOR ARRAY	1	
R9688	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9689	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9690	EXB38V470J	RESISTOR ARRAY	1	
R9696	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9697	EXB38V470J	RESISTOR ARRAY	1	
R9698-00	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9701-03	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9705	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9706,07	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	2	
R9708	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9709	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9710	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9711	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9713	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9714	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9715	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9716	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9718	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9720	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9722,23	EXB2HV470JV	RESISTOR ARRAY	2	
R9725-28	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9729	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9730	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9731	TAJAAH0470JV	M 47 OHM,J,1/16W	1	
R9732	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9733	EXB38V220J	RESISTOR ARRAY	1	
R9734,35	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9736	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9737	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9738	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9740	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9741	D1HG33080001	NETWORK RESISTER	1	
R9742	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9743	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9744	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9746	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9747	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9748-50	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9751,52	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9753	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9754	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9755	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9756	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9757	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9760	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R9765	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9766	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9767	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9768	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9769	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9771	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9772,73	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9774	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9775	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R9777	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9778,79	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9781	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9782	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9783	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9785	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9786	D1HG33080001	NETWORK RESISTER	1	
R9787,88	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9791	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9792	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9793	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9795	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9796	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9797	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9798	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9801	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9807	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9808	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9810	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9811	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9812	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9813	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9814	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9815	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9816	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9817	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9818	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9819	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9820,21	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9822	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9823	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9824	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9825	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R9826	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9827,28	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R9829	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9832	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9833	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9834	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9836,37	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9838	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R9839	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9840	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9843	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9844	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9845-48	TAJAAH0101JV	M 100 OHM,J,1/16W	4	

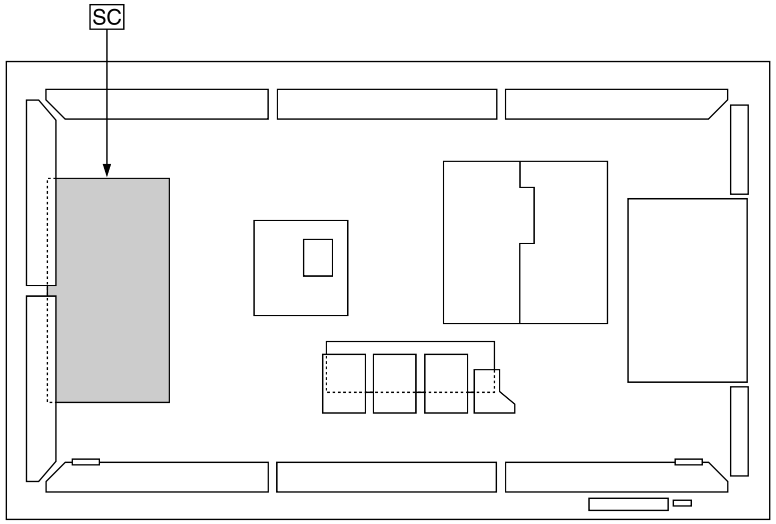
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9849	D1HG33080001	NETWORK RESISTER	1	
R9850	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9851	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9852	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9853-55	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9857	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9859	D1HG33080001	NETWORK RESISTER	1	
R9860	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9861	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9863	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9865	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9866	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9868-70	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9871	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9872,73	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9874	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9875	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9876-79	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9880	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9881	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9882	EXB38VR000	RESISTOR ARRAY	1	
R9883	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9884	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9885	EXB38VR000	RESISTOR ARRAY	1	
R9888	D1HG33080001	NETWORK RESISTER	1	
R9890	D1HG33080001	NETWORK RESISTER	1	
R9891-93	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9894	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9895-97	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9901	D1HG33080001	NETWORK RESISTER	1	
R9907	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9908	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9909	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9910	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9911	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9912	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9913	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9914	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9915	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9916	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9917	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9918	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9919	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9923	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9924	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9973	ERJ6ENF2002	M 20KOHM, 1/10W	1	
R9974	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R9975-77	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9981	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9982	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9983	ERJ6ENF1601	M 1.6KOHM, 1/10W	1	
R9984	ERJ6ENF1001	M 1KOHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9985	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9986	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R9991,92	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9993	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9995,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
RF601	HUF5K100J14	THERMAL CUTOFF WITH RESISTOR	1	⚠
RF1601	HUF5K100J14	THERMAL CUTOFF WITH RESISTOR	1	⚠
RM001	PNA4701M05TV	REMOCO RECEIVER	1	
RTL	TNPA3003	CIRCUIT BOARD H3	2	⚠
RTL	TNPA3630AC	CIRCUIT BOARD J	1	UK ⚠
RTL	TNPA3630AD	CIRCUIT BOARD J	1	BK/EK ⚠
RTL	TZTNP040VAS	CIRCUIT BOARD HX	1	⚠
RTL	TXNHA10RBS	CIRCUIT BOARD HA	1	⚠
RTL	TXNHB10QXS	CIRCUIT BOARD HB	1	⚠
RTL	ETXMM584MEK	CIRCUIT BOARD P	1	⚠
RTL	TNPA3671	CIRCUIT BOARD SS2	1	⚠
RTL	TNPA3672	CIRCUIT BOARD SS3	1	⚠
RTL	TNPA3663	CIRCUIT BOARD C1	1	⚠
RTL	TNPA3664	CIRCUIT BOARD C2	1	⚠
RTL	TNPA3665	CIRCUIT BOARD C3	1	⚠
RTL	TNPA3666	CIRCUIT BOARD C4	1	⚠
RTL	TNPA3667	CIRCUIT BOARD C5	1	⚠
RTL	TNPA3668	CIRCUIT BOARD C6	1	⚠
RTL	TZTNP020YUS	CIRCUIT BOARD D	1	UK ⚠
RTL	TZTNP01YUSE	CIRCUIT BOARD D	1	BK/EK ⚠
RTL	TNPA3655AB	CIRCUIT BOARD PB	1	⚠
RTL	TNPA3669	CIRCUIT BOARD SC	1	⚠
RTL	TNPA3674	CIRCUIT BOARD SD	1	⚠
RTL	TNPA3670	CIRCUIT BOARD SS	1	⚠
RTL	TNPA3673	CIRCUIT BOARD SU	1	⚠
RTL	TNPA3200AB	CIRCUIT BOARD S1	1	⚠
RTL	TNPA3199AB	CIRCUIT BOARD V1	1	⚠
S34	K1KA03AA0193	3P CONNECTOR	1	
S1550-54	EVQPBD05R	SWITCH	5	
S061	K0F162B00002	SWITCH	1	
SC2	K1KA02AA0515	2P CONNECTOR	1	
SC20	K1KA20AA0008	20P CONNECTOR	1	
SC23	K1KA03AA0193	3P CONNECTOR	1	
SC41-44	K1ML80B00001	80P CONNECTOR	4	
SC45,46	K1KA10A00431	10P CONNECTOR	2	
SC90	K1KA06AA0192	6P CONNECTOR	1	
SCMM1	TMME047	CLAMPER	1	
SCMM5	TMME047	CLAMPER	1	
SCMM6	TMME190	CLAMPER	1	
SD1-D4	K1MN96B00004	96P CONNECTOR	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SD46	K1KA10B00209	10P CONNECTOR	1	
SDMM1	TMM25401	CLAMPER	1	
SS11	K1KA02AA0515	2P CONNECTOR	1	
SS12	K1KA10AA0194	10P CONNECTOR	1	
SS21	K1KA07A00170	7P CONNECTOR	1	
SS23	K1KB07AA0087	7P CONNECTOR	1	
SS25	K1KA07A00170	7P CONNECTOR	1	
SS27	K1KB07AA0087	7P CONNECTOR	1	
SS2MM1	TMME190	CLAMPER	1	
SS2MM3	TMME190	CLAMPER	1	
SS34	K1KA03AA0193	3P CONNECTOR	1	
SS35	K1KA10AA0194	10P CONNECTOR	1	
SS3MM1	TMME190	CLAMPER	1	
SS3MM3	TMME190	CLAMPER	1	
SS42	K1KA10AA0194	10P CONNECTOR	1	
SS44	K1KA20AA0009	20P CONNECTOR	1	
SS51-58	K1MN13B00020	13P CONNECTOR	8	
SU1-U4	K1MN96B00004	96P CONNECTOR	4	
SU45	K1KA10B00209	10P CONNECTOR	1	
SUMM1	TMM25401	CLAMPER	1	
T401	ETB57LZ135AD	TRANSFORMER	1	⚠
T701	ETB33LM116AD	TRANSFORMER	1	⚠
T901	ETB25KA1B8AD	TRANSFORMER	1	⚠
T6801	ETS28AU2S9AC	SWITCHING TRANSFORMER	1	
T6802	ETS13TB199AP	SWITCHING TRANSFORMER	1	
TH301	PRFCBB471	POSISTOR	1	
V34	K1KA08BA0047	8P CONNECTOR	1	
VR351	EVMEASA01B15	VARIABLE RESISTOR	1	
VR451	EVMEASA00B53	VARIABLE RESISTOR	1	
VR701	EVMEASA01B24	VARIABLE RESISTOR	1	
VR6250	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6602	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6801,02	EVMEASA00B14	CONTROL 10KOHMB 0.3W	2	
X2301	H0J184500020	CRYSTAL	1	
X3101	H0J202500002	CRYSTAL	1	
X8181	H0J327200114	CRYSTAL	1	
X9500	H0J200500038	CRYSTAL	1	
X9701	H0J400400017	CRYSTAL	1	
Z601	TND14V751	VARISTOR	1	⚠
Z603	ERZVGAD471	VARISTOR	1	⚠
Z901,02	ERZVGAD471	VARISTOR	2	⚠
ZA001	K4CD01000013	TERMINAL	1	
ZA007	K4CD01000013	TERMINAL	1	
ZA3001-08	K4CD01000013	TERMINAL	8	
ZA6101-03	K4CD01000013	TERMINAL	3	
ZA6401-03	K4CD01000013	TERMINAL	3	
ZA7101-04	K4CD01000013	TERMINAL	4	
ZA7201-04	K4CD01000013	TERMINAL	4	
ZA7301,02	K4CD01000013	TERMINAL	2	
ZA7401-04	K4CD01000013	TERMINAL	4	
ZA7501-04	K4CD01000013	TERMINAL	4	
ZA7601,02	K4CD01000013	TERMINAL	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
ZD402	PTZ24B	ZENER DIODE	1	
ZD403	MA8056	ZENER DIODE	1	
ZD410	MA4220N	ZENER DIODE	1	
ZD413	MA4270N	ZENER DIODE	1	
ZD451	1ZB18	ZENER DIODE	1	
ZD701	MA4220N	ZENER DIODE	1	
ZD702	PTZ24B	ZENER DIODE	1	
ZD703	MA8056	ZENER DIODE	1	
ZD713	MA4270N	ZENER DIODE	1	
ZD901,02	MA8270	ZENER DIODE	2	
ZD1601	MA4220N	ZENER DIODE	1	
ZD1669	MA8220	ZENER DIODE	1	

19. Schematic Diagram for printing with A4



Parts Location

SC-BOARD (FOIL SIDE)

IC	
IC6801	I-2

TRANSISTOR	
Q6501	C-4
Q6502	C-4
Q6503	C-4
Q6504	C-4
Q6505	B-4
Q6506	B-4
Q6513	G-4
Q6514	G-4
Q6515	F-4
Q6516	F-4
Q6517	F-4
Q6518	F-4
Q6519	E-4
Q6531	D-2
Q6532	D-2
Q6533	C-2
Q6534	C-2
Q6537	F-2
Q6538	F-2
Q6539	F-2
Q6540	F-2
Q6602	H-4
Q6811	A-4
Q6812	A-4
Q6813	A-4
Q6814	B-5
Q6815	A-4
Q6819	I-3
Q6820	H-3

TP	
TP6005	B-1
TP6006	B-1
TP6007	B-1
TP6008	B-1
TP6009	B-1
TP6010	B-1
TP6011	B-1
TP6012	B-1
TP6013	E-1
TP6014	F-2
TP6015	F-1
TP6016	F-2
TP6017	E-1
TP6018	F-1
TP6019	F-1
TP6020	E-1
TP6021	E-1
TP6022	D-1
TP6023	D-1
TP6024	D-1
TP6025	D-1
TP6026	D-1
TP6027	D-1
TP6028	E-1
TP6029	E-2
TP6030	F-2
TP6031	F-2
TP6032	A-5
TP6033	A-5
TP6034	B-5
TP6035	B-5
TP6036	B-5
TP6037	D-5
TP6038	I-5
TP6039	H-5
TP6040	H-5
TP6041	H-5
TP6042	H-5
TP6043	H-5
TP6044	D-5
TP6045	D-5
TP6046	B-5
TP6047	B-5
TP6048	B-5
TP6049	H-5
TP6050	H-5
TP6051	F-5
TP6052	F-5
TP6053	F-5
TP6054	H-4
TP4055	A-4
TP4056	A-4
TP4057	A-3
TP4058	A-4
TP4059	B-4
TP6060	I-5
TP6061	B-5
TP6062	F-5
TP6063	D-5

Parts Location

SC-BOARD (COMPONENT SIDE)

IC	
IC6411	F-1
IC6412	D-2
IC6413	F-1
IC6421	C-2
IC6501	F-4
IC6502	F-2
IC6503	E-3
IC6504	H-2
IC6610	H-4
IC6611	H-4
IC6620	C-4
IC6621	B-4
IC6630	B-4
IC6640	B-5
IC6650	A-5
IC6651	A-5
IC6652	B-4
IC6653	B-5
IC6654	B-4
IC6801	B-2
IC6811	I-4
IC6812	I-4
IC6814	B-4
IC6815	B-3
IC6816	B-4
IC6817	B-2
IC6818	B-4

TRANSISTOR	
Q6411	D-2
Q6412	F-2
Q6413	F-1
Q6501	G-4
Q6502	G-4
Q6503	G-4
Q6504	G-4
Q6505	H-4
Q6506	H-4
Q6513	C-4
Q6514	C-4
Q6515	D-4
Q6516	D-4
Q6517	D-4
Q6518	D-4
Q6519	E-4
Q6531	F-2
Q6532	F-2
Q6533	G-2
Q6534	G-2
Q6537	D-2
Q6538	D-2
Q6539	D-2
Q6540	D-2
Q6543	H-3
Q6544	H-2
Q6545	I-3
Q6546	I-2
Q6551	F-4
Q6552	F-4
Q6553	F-4
Q6554	F-4
Q6559	E-4
Q6560	E-4
Q6561	E-4
Q6562	E-4
Q6567	F-3
Q6568	F-3
Q6571	E-3
Q6572	E-3
Q6575	I-2
Q6576	I-2
Q6577	I-4
Q6601	H-5
Q6602	C-4
Q6604	C-5
Q6611	C-4
Q6612	D-4
Q6613	D-4
Q6614	D-4
Q6615	D-4
Q6616	E-4
Q6617	E-4
Q6618	E-4
Q6619	F-4
Q6620	F-4
Q6621	F-4
Q6622	G-4
Q6623	G-4
Q6624	G-4
Q6625	G-4
Q6626	G-4
Q6630	C-5
Q6631	D-5
Q6632	D-5
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Q6644	G-5
Q6645	G-5
Q6650	C-5
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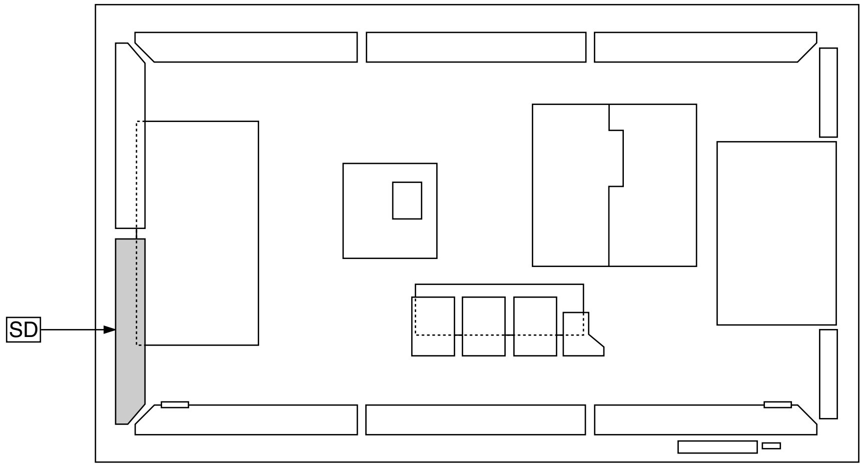
Q6652	B-5
Q6653	B-5
Q6654	C-5
Q6655	H-4
Q6656	E-4
Q6657	H-4
Q6658	H-4
Q6659	H-4
Q6660	C-4
Q6661	C-4
Q6662	E-5
Q6663	F-5
Q6664	C-4
Q6665	C-4
Q6666	B-4
Q6667	B-4
Q6668	C-4
Q6669	B-4
Q6670	B-5
Q6811	I-4
Q6812	H-4
Q6813	I-4
Q6814	H-5
Q6815	I-4
Q6816	A-3
Q6817	A-4
Q6818	A-3
Q6819	A-3
Q6820	B-3
Q6821	B-2
Q6822	B-5
Q6823	B-4
Q6825	A-3

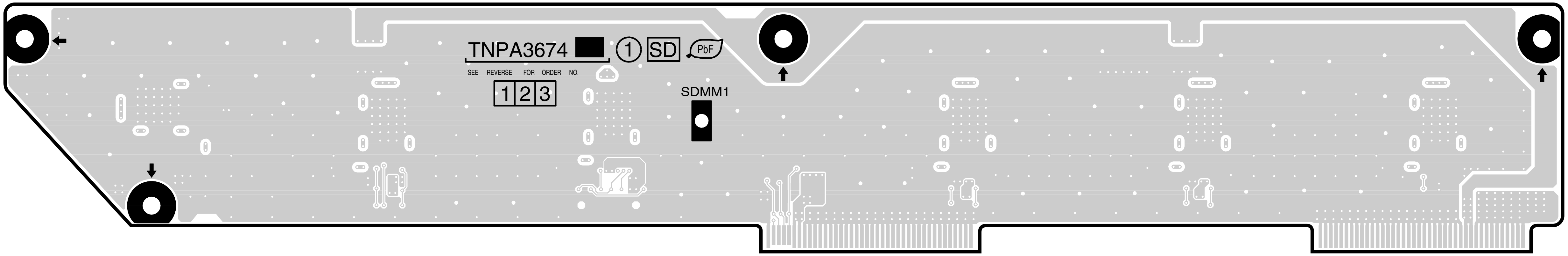
TP	
TP15V	I-1
TPSC1	C-5
TPSOS1	E-2
TPVAD	B-4
TPVBK	I-4
TPVSCN	A-4
TPVSET	H-5
TPVSET2	B-4
TPVSUS	H-1

Parts Location

SD-BOARD			
IC		**TP**	
IC6920	A-2	TPSD21	A-2
IC6921	C-2	TPSD22	A-2
IC6922	D-2	TPSD23	E-2
IC6923	F-2	TPSD24	E-2
IC6924	G-2	TPSD25	I-2
IC6925	H-2	TPSD26	I-2



SD-BOARD (FOIL SIDE)
TNPA3674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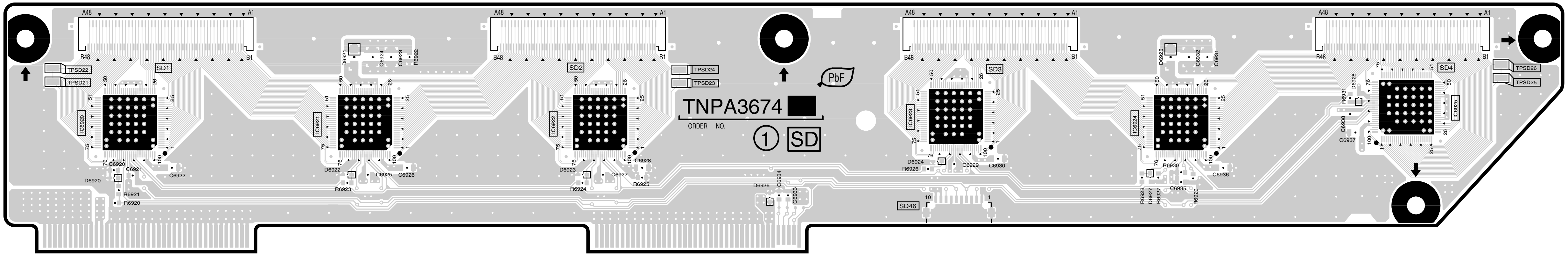
1
SD
PbF
SEE REVERSE FOR ORDER NO.
1 2 3
SDMM1

SD-BOARD (COMPONENT SIDE)
TNPA3674


A48
A1
B48
B1
SD1
SD2
SD3
SD4
TPSD22
TPSD21
TPSD24
TPSD23
TPSD26
TPSD25
IC6920
IC6921
IC6922
IC6923
IC6924
IC6925
C6920
C6921
C6922
D6920
R6921
R6920
D6921
C6924
C6923
R6922
D6922
C6925
C6926
R6923
D6923
C6927
C6928
R6924
R6925
D6926
C6934
C6933
SD46
D6924
R6926
C6929
C6930
D6925
C6932
C6931
R6930
C6936
C6935
R6928
D6927
R6927
R6929
R6931
D6928
C6938
C6937
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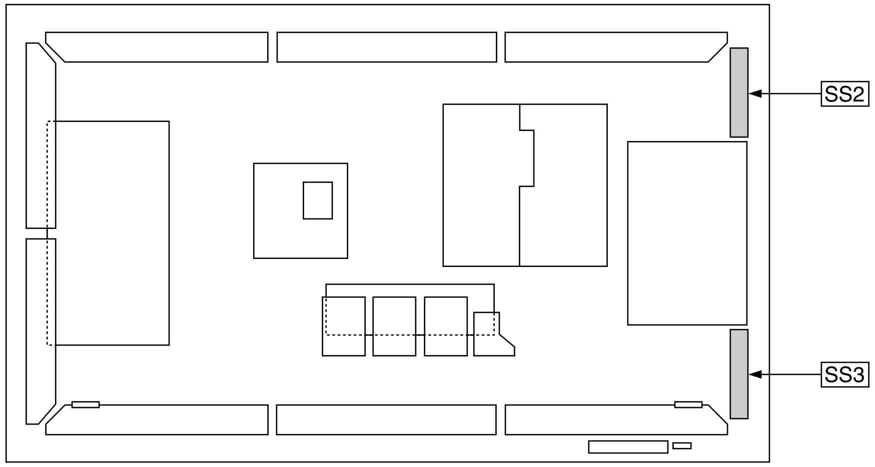
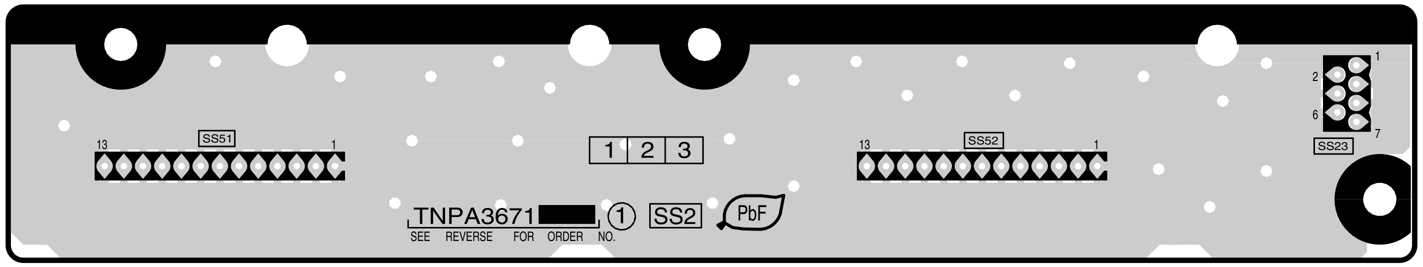
ORDER NO.
1
SD
PbF

6
5
4
3
2
1

A B C D E F G H I



SS2-BOARD (FOIL SIDE)
TNPA3671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SS52
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SS23
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7
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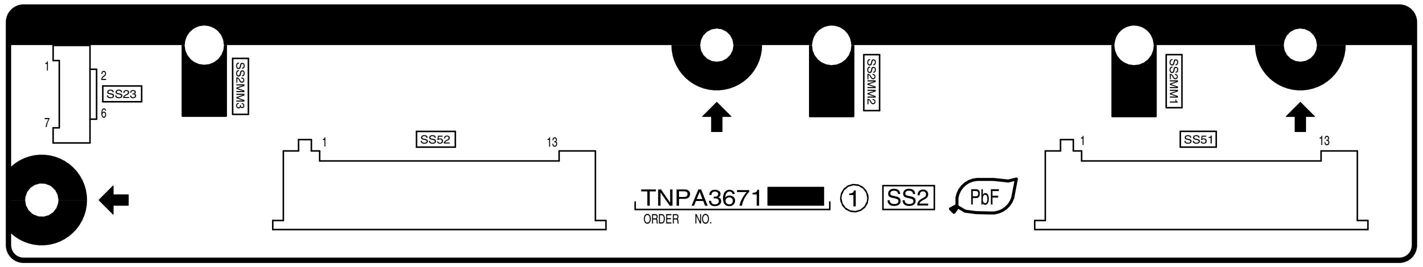
①
SS2
PbF
SEE REVERSE FOR ORDER NO.

SS2-BOARD (COMPONENT SIDE)
TNPA3671


SS23
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7
SS2MM3
SS52
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13
SS2MM2
SS2MM1
SS51
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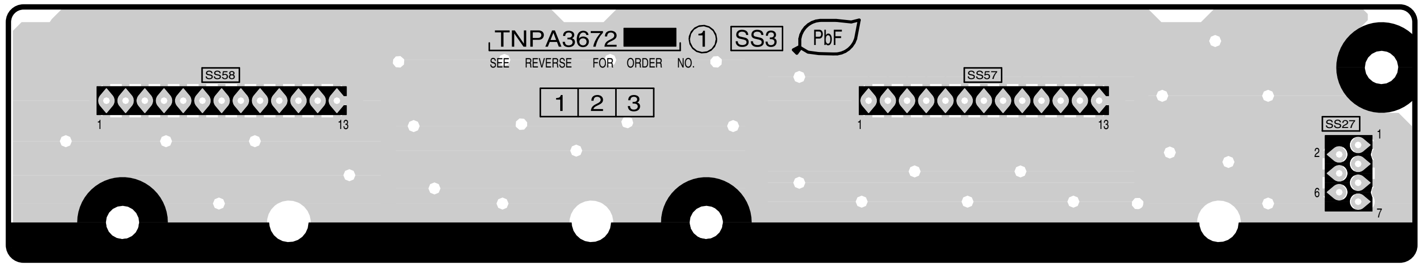
13
TNPA3671
①
SS2
PbF
ORDER NO.

SS3-BOARD (FOIL SIDE)
TNPA3672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SS3
PbF
SEE REVERSE FOR ORDER NO.
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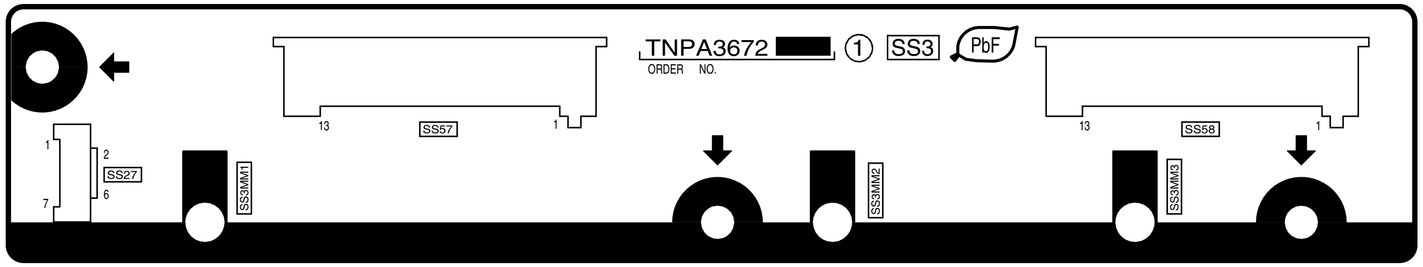
1 2 3
SS57
1
13
SS27
1
2
6
7

SS3-BOARD (COMPONENT SIDE)
TNPA3672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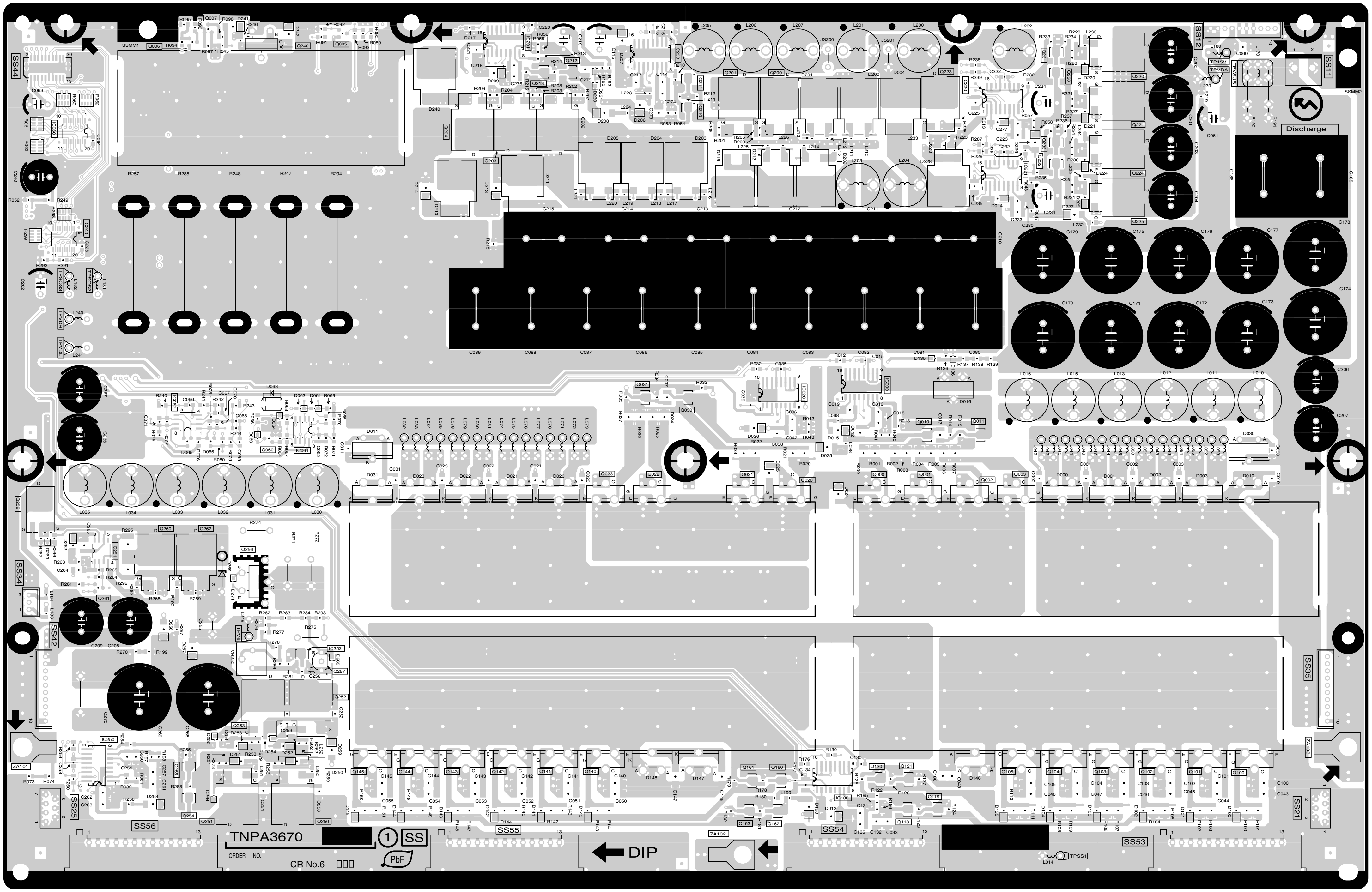
①
SS3
PbF
ORDER NO.
13
SS57
1
13
SS58
1
SS27
1
2
6
7
SS3MM1
SS3MM2
SS3MM3

TH-65PHD8 SERIES
SS2-BOARD TNPA3671
SS3-BOARD TNPA3672

SS-BOARD (COMPONENT SIDE)
TNPA3670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SSMM2
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SS42
SS34
SS25
SS56
SS55
SS54
SS53
SS35
SS21
SS11
SS12
ZA101
ZA102
ZA103
Discharge
TNPA3670
① SS
ORDER NO.
CR No.6
PbF
DIP
TPSS1
TP15V
TPVDA
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G
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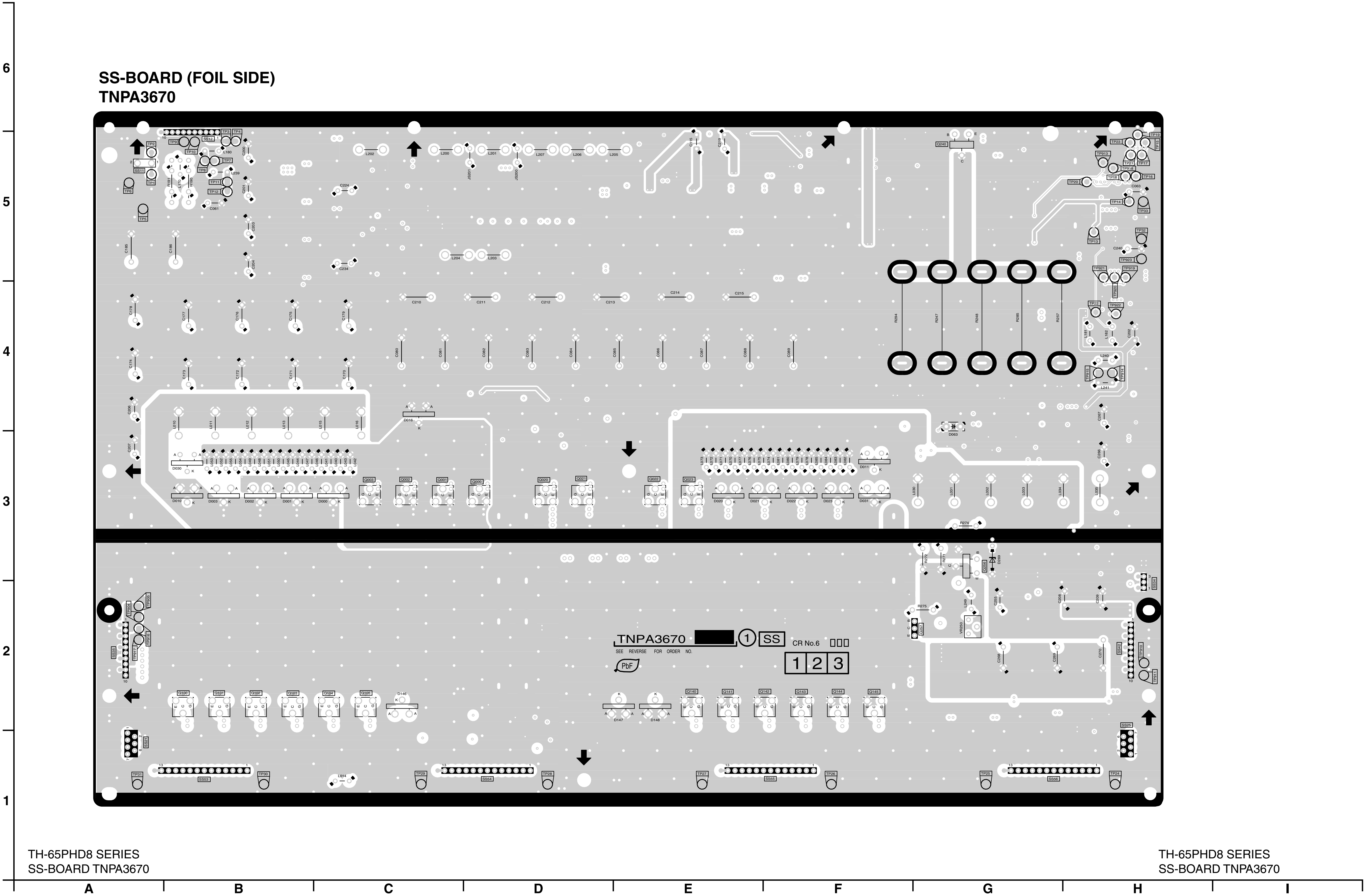
I

SS-BOARD (FOIL SIDE)
TNPA3670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G
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TNPA3670
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CR No.6
1
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3
SEE REVERSE FOR ORDER NO.
PbF
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SS12
SS25
SS31
SS33
SS42
SS53
SS54
SS55
SS56
TP1
TP2
TP3
TP4
TP5
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C268
C269
C270
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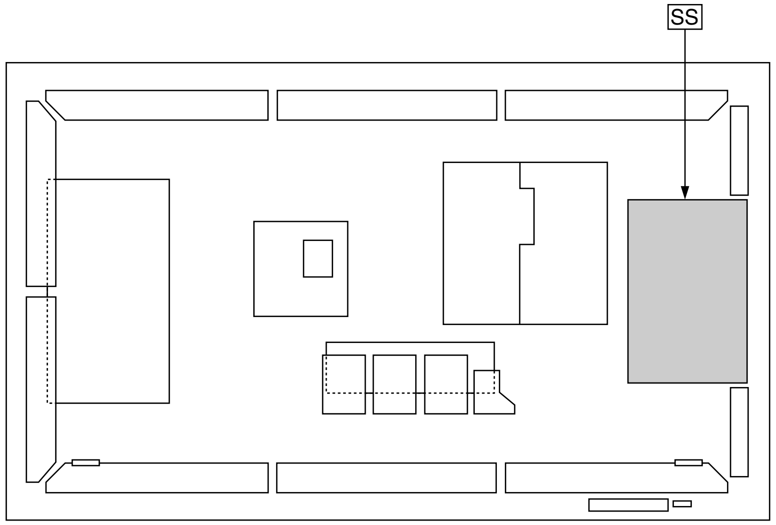
VR250
JS200
JS201



Parts Location

SS-BOARD (FOIL SIDE)

TRANSISTOR		TP			
Q6000	D-3	TP1	A-5	TP24	H-1
Q6001	C-3	TP2	A-5	TP25	G-1
Q6002	C-3	TP3	B-5	TP26	F-1
Q6003	C-3	TP4	B-5	TP27	E-1
Q6020	D-3	TP5	A-5	TP28	D-1
Q6021	D-3	TP6	A-5	TP29	C-1
Q6022	E-3	TP7	B-5	TP30	B-1
Q6023	E-3	TP8	B-5	TP31	A-1
Q6100	B-2	TP9	B-5	TP32	H-5
Q6101	B-2	TP10	B-5	TP33	H-5
Q6102	B-2	TP11	B-5	TP6904	A-2
Q6103	B-2	TP12	B-5	TP6905	A-2
Q6104	C-2	TP13	H-5	TP6910	H-2
Q6105	C-2	TP14	H-5	TP6911	H-2
Q6140	E-2	TP15	H-5	TP6913	H-5
Q6141	E-2	TP16	H-5	TP6914	H-4
Q6142	F-2	TP17	H-5	TP6915	H-4
Q6143	F-2	TP18	H-5	TP6916	A-2
Q6144	F-2	TP19	H-5	TP6917	A-2
Q6145	F-2	TP20	H-5	TP6918	H-5
Q6240	G-5	TP21	H-5	TP6919	H-5
Q6256	G-3	TP22	H-4	TP6920	H-4
Q6257	G-2	TP23	H-5	TP6921	H-5
				TP6922	H-4
				TP6923	H-5

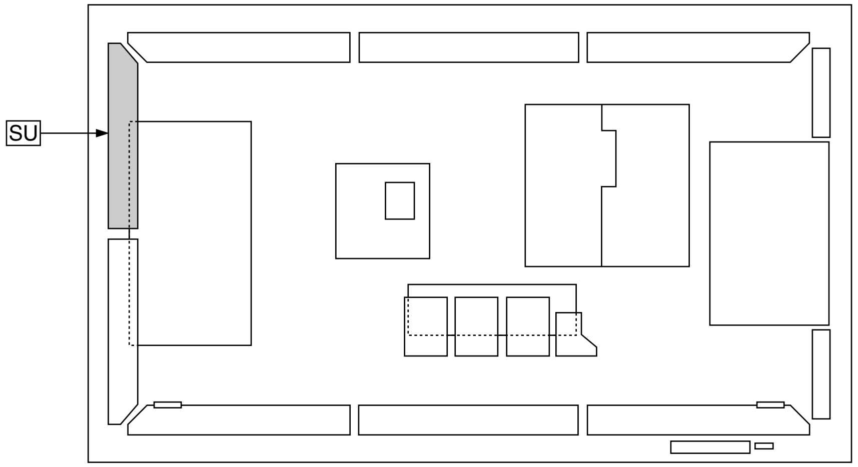
Parts Location

SS-BOARD (COMPONENT SIDE)

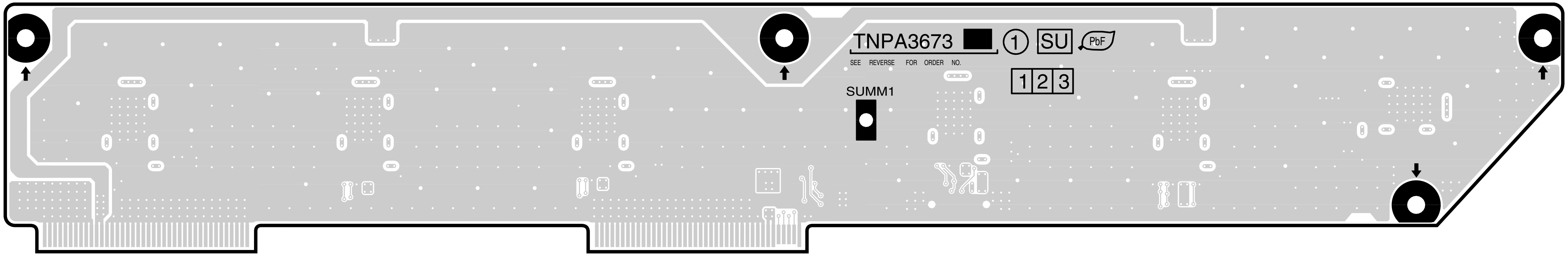
IC		TRANSISTOR					
IC6000	F-4	Q6000	F-3	Q6142	D-2	Q6252	C-2
IC6020	E-4	Q6001	F-3	Q6143	C-2	Q6253	B-2
IC6060	A-5	Q6002	F-3	Q6144	C-2	Q6254	B-1
IC6061	C-3	Q6003	F-3	Q6145	C-2	Q6255	B-2
IC6062	B-4	Q6005	C-5	Q6160	E-2	Q6256	B-3
IC6100	E-1	Q6006	B-5	Q6161	E-2	Q6257	C-2
IC6200	E-5	Q6007	B-6	Q6162	E-1	Q6259	A-3
IC6201	D-5	Q6010	F-3	Q6163	E-1	Q6260	B-3
IC6220	F-5	Q6011	F-3	Q6200	E-5	Q6261	B-3
IC6221	F-5	Q6020	E-3	Q6201	E-5	Q6262	B-3
IC6240	A-5	Q6021	E-3	Q6202	D-5	**TP**	
IC6250	B-2	Q6022	D-3	Q6203	D-5	TP15V	G-5
IC6251	B-3	Q6023	D-3	Q6204	C-5	TPSOS2	A-4
IC6252	C-2	Q6030	E-3	Q6210	E-5	TPSOS3	A-4
		Q6031	D-4	Q6211	E-5	TPSS1	G-1
		Q6060	B-3	Q6212	D-5	TPVDA	G-5
		Q6100	H-2	Q6213	D-5	TPVDL	A-4
		Q6101	G-2	Q6220	G-5	TPVDR	A-4
		Q6102	G-2	Q6221	G-5	TPVe	B-2
		Q6103	G-2	Q6223	F-5	TPVSUS	G-5
		Q6104	G-2	Q6224	G-5		
		Q6105	F-2	Q6225	G-4		
		Q6118	F-1	Q6230	G-5		
		Q6119	F-1	Q6231	F-5		
		Q6120	F-2	Q6232	F-5		
		Q6121	F-2	Q6233	F-5		
		Q6140	D-2	Q6240	C-5		
		Q6141	D-2	Q6250	C-1		
				Q6251	B-1		

Parts Location

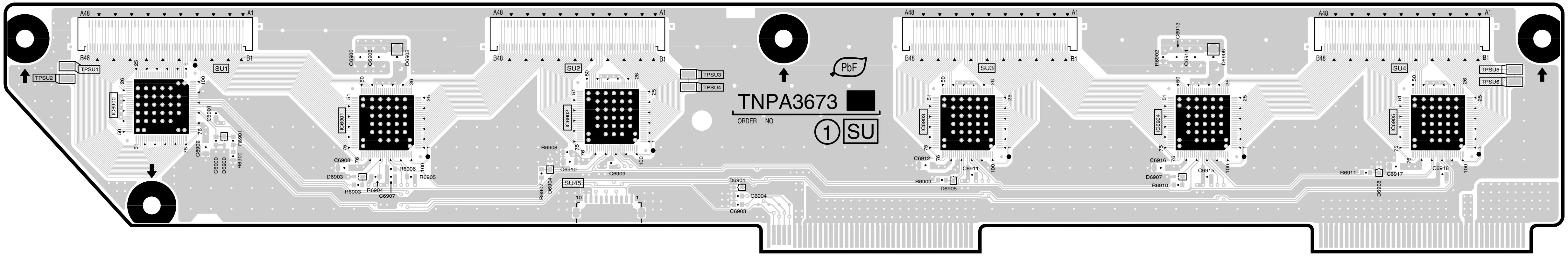
SU-BOARD			
IC		**TP**	
IC6900	A-2	TPSU1	A-2
IC6901	C-2	TPSU2	A-2
IC6902	D-2	TPSU3	E-2
IC6903	F-2	TPSU4	E-2
IC6904	G-2	TPSU5	I-2
IC6905	H-2	TPSU6	I-2



SU-BOARD (FOIL SIDE)
TNPA3673


TNPA3673
①
SU
PbF
SEE REVERSE FOR ORDER NO.
1 2 3
SUMM1

SU-BOARD (COMPONENT SIDE)
TNPA3673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B48
B1
TPSU1
TPSU2
SU1
SU2
SU3
SU4
SU45
TPSU3
TPSU4
TPSU5
TPSU6
IC6900
IC6901
IC6902
IC6903
IC6904
IC6905
TNPA3673
ORDER NO.
①
SU
PbF
C6900
C6901
C6902
C6903
C6904
C6905
C6906
C6907
C6908
C6909
C6910
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R6902
R6903
R6904
R6905
R6906
R6907
R6908
R6909
R6910
R6911
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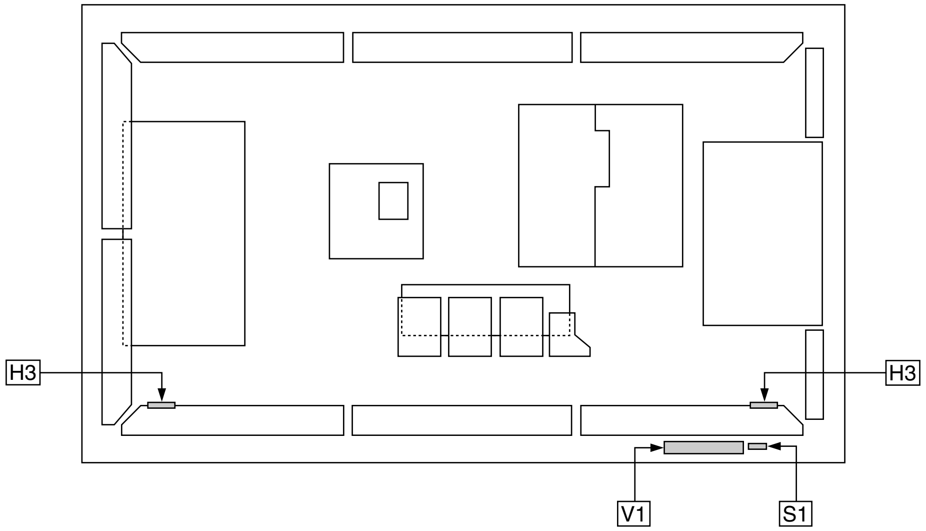
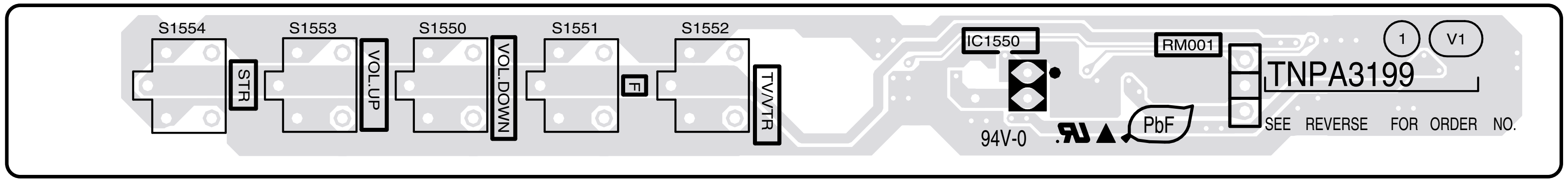
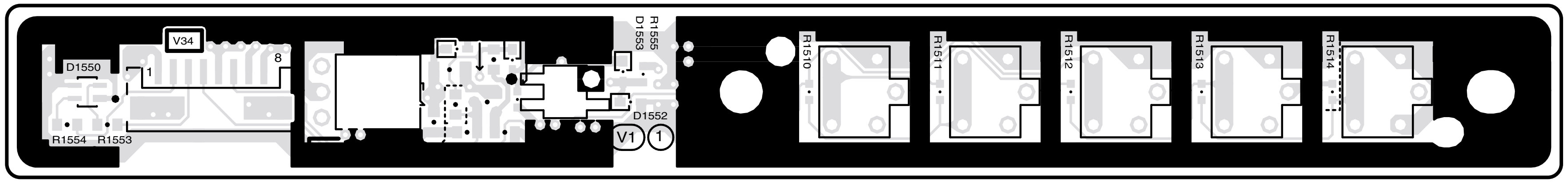
10
25
26
50
51
75
76
100



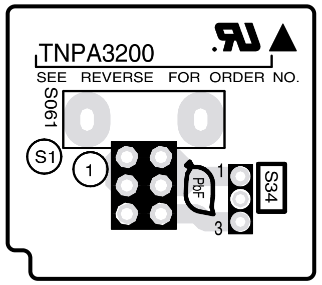
V1-BOARD (FOIL SIDE)
TNPA3199AB


S1554
S1553
S1550
S1551
S1552
STR
VOL.UP
VOL.DOWN
F
TV/VTR
IC1550
RM001
1
V1
TNPA3199
SEE REVERSE FOR ORDER NO.
94V-0
PbF

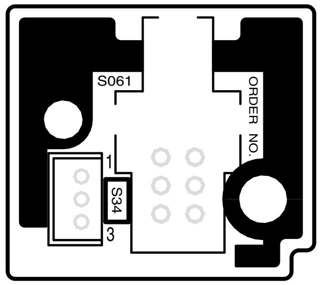
V1-BOARD (COMPONENT SIDE)
TNPA3199AB


V34
D1550
1
8
R1554
R1553
R1555
D1553
D1552
V1
1
R1510
R1511
R1512
R1513
R1514

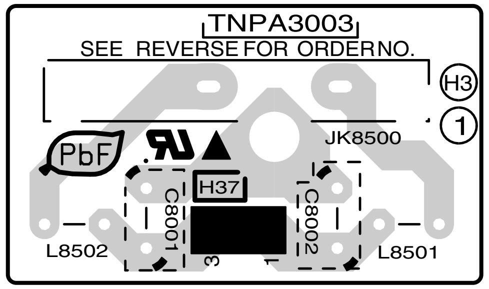
S1-BOARD (FOIL SIDE)
TNPA3200AB


TNPA3200
SEE REVERSE FOR ORDER NO.
S061
S1
1
PbF
1
3
S34

S1-BOARD (COMPONENT SIDE)
TNPA3200AB


S061
ORDER NO.
1
S34
3

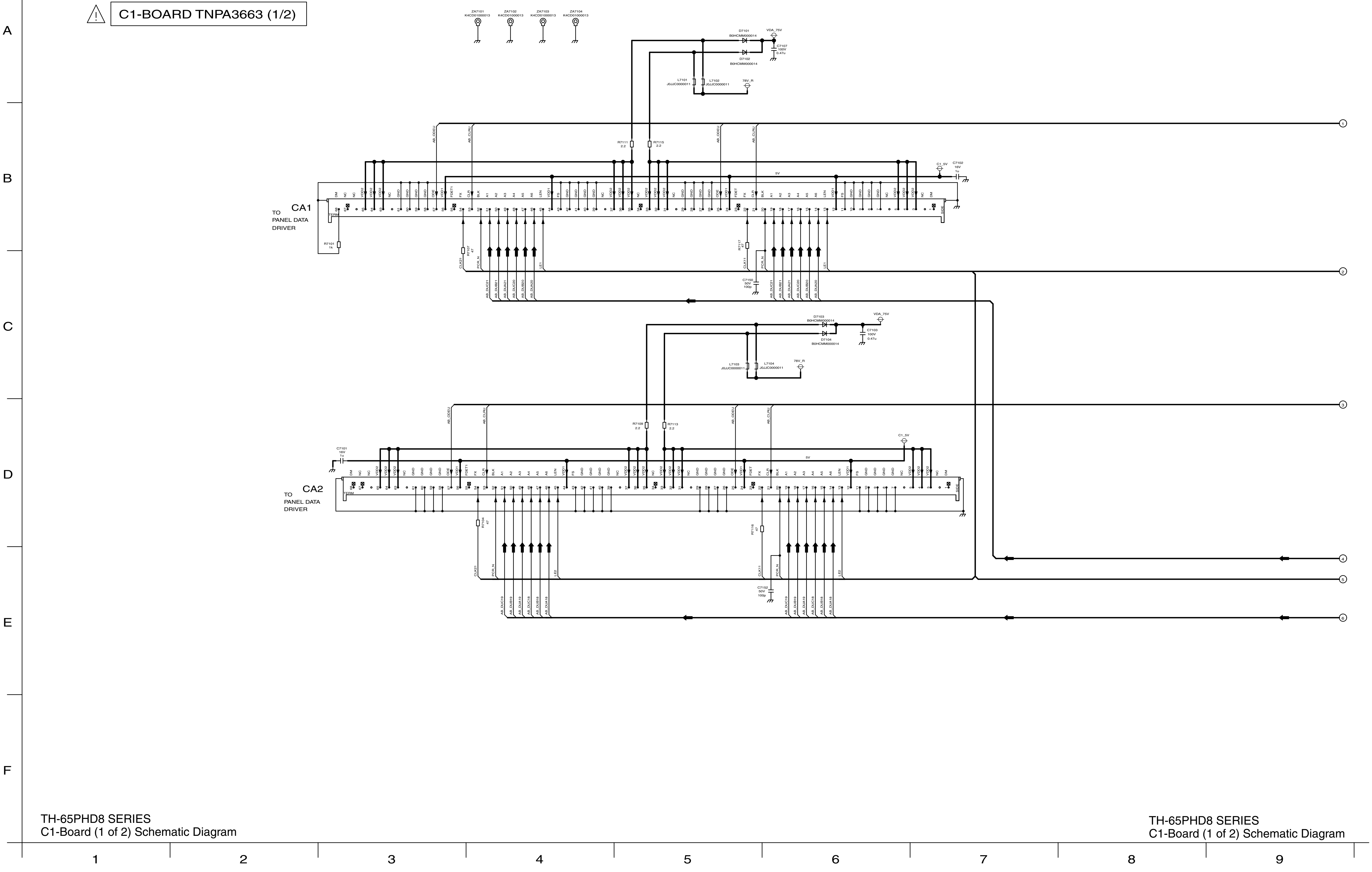
H3-BOARD
TNPA3003


TNPA3003
SEE REVERSE FOR ORDER NO.
H3
1
JK8500
PbF
H37
C8001
C8002
L8502
L8501
3
1

TH-65PHD8 SERIES
V1-BOARD TNPA3199AB
S1-BOARD TNPA3200AB
H3-BOARD TNPA3003

TH-65PHD8 SERIES
V1-BOARD TNPA3199AB
S1-BOARD TNPA3200AB
H3-BOARD TNPA3003

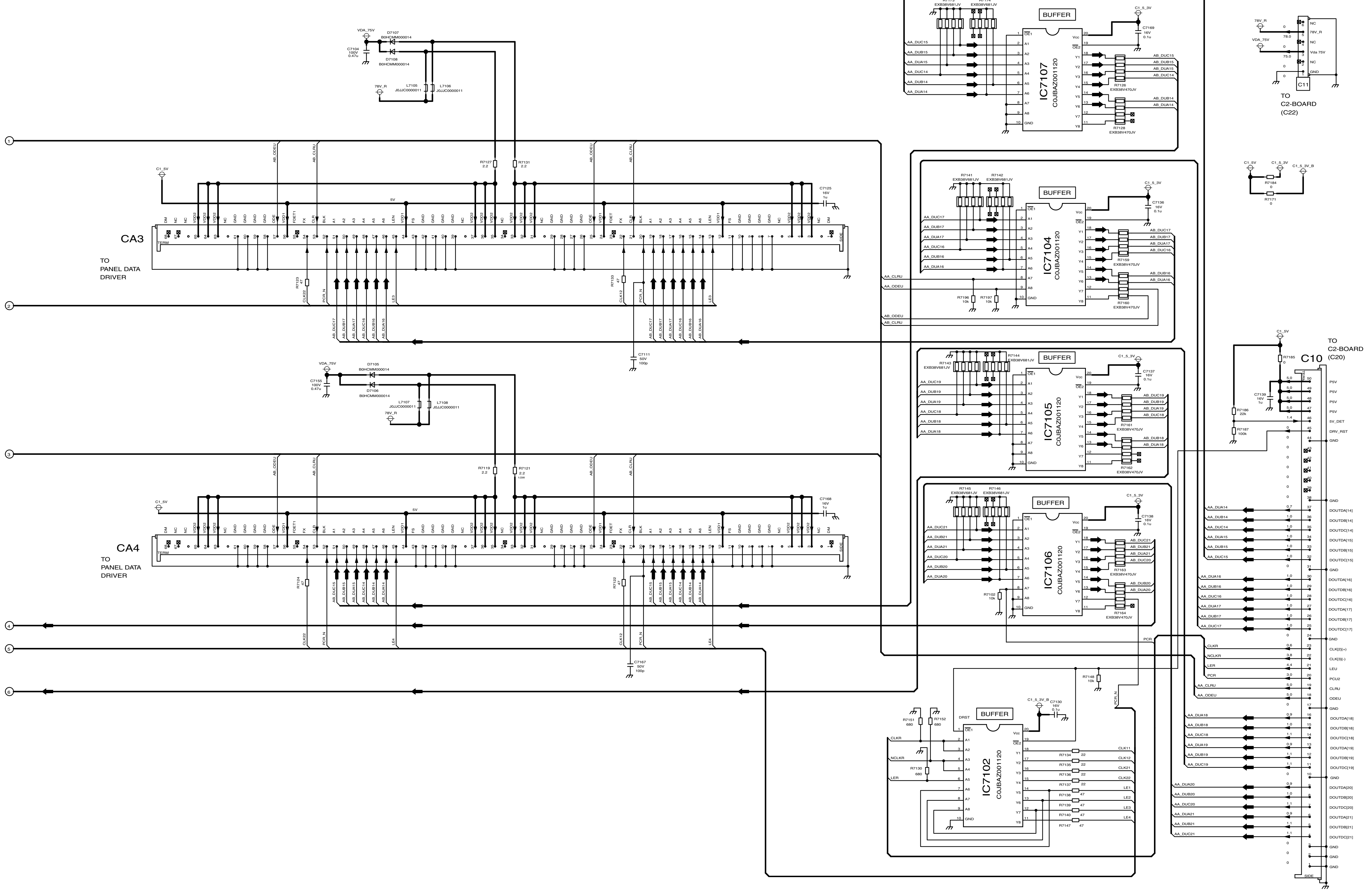
C1-BOARD TNPA3663 (1/2)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
ZA7101 K4CD01000013
ZA7102 K4CD01000013
ZA7103 K4CD01000013
ZA7104 K4CD01000013
D7101 B0HCMM000014
D7102 B0HCMM000014
VDA_75V
C7107 100V 0.47u
L7101 J0JJC0000011
L7102 J0JJC0000011
76V_R
AB_ODEU
AB_CLRU
R7111 2.2
R7115 2.2
5V
C1_5V
C7102 16V 1u
CA1
TO PANEL DATA DRIVER
TERM
SIDE
R7101 1k
R7107 47
CLK21
PCR_N
LE1
R7117 47
CLK11
LE1
C7150 50V 100p
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
D7103 B0HCMM000014
D7104 B0HCMM000014
C7103 100V 0.47u
L7103 J0JJC0000011
L7104 J0JJC0000011
R7109 2.2
R7113 2.2
C7101 16V 1u
CA2
R7104 47
R7116 47
LE2
C7152 50V 100p
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
①
②
③
④
⑤
⑥

TH-65PHD8 SERIES
C1-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
C1-Board (1 of 2) Schematic Diagram

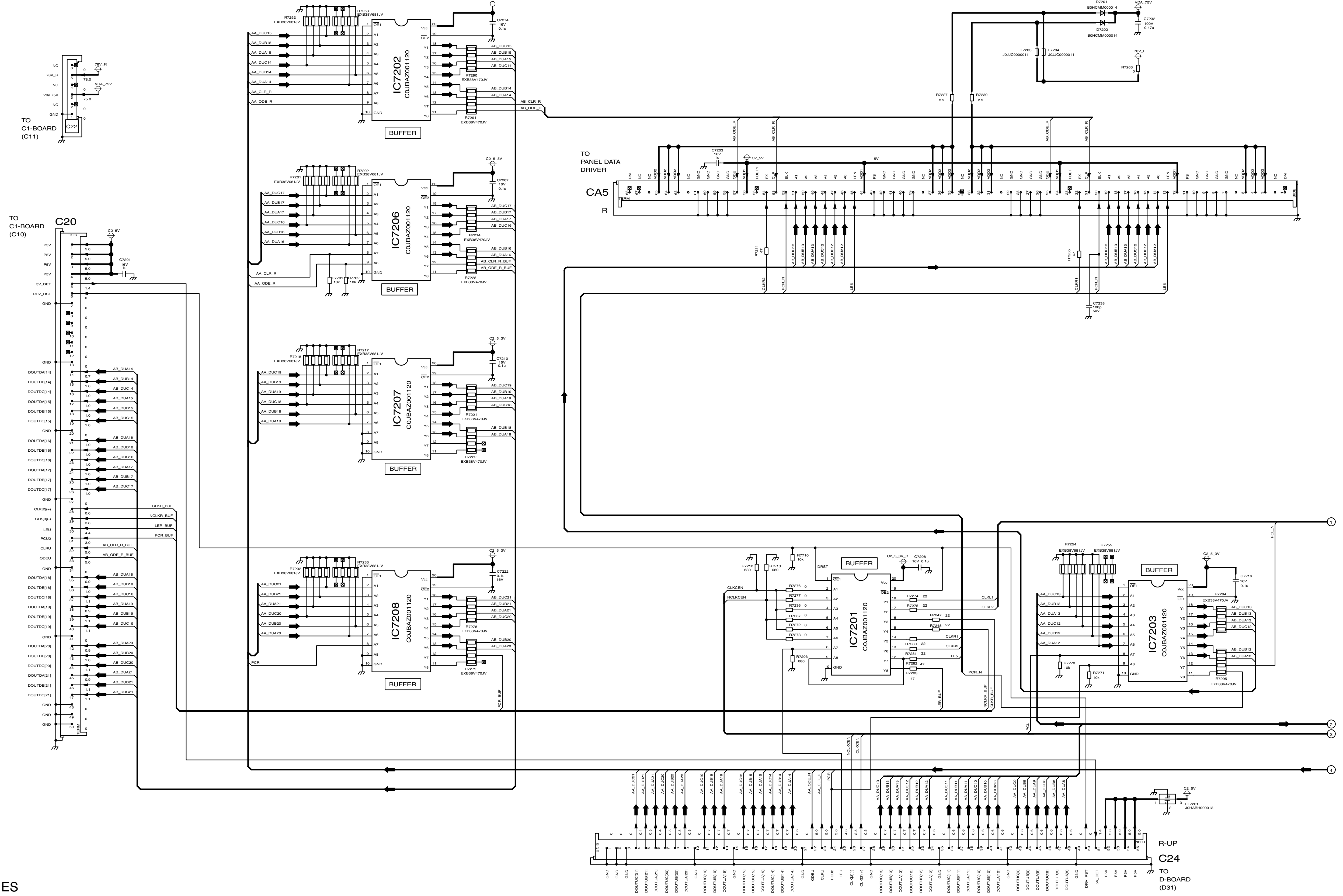
C1-BOARD TNPA3663 (2/2)


CA3
TO
PANEL DATA
DRIVER
CA4
TO
PANEL DATA
DRIVER
BUFFER
IC7107
C0JBAZ001120
IC7104
C0JBAZ001120
IC7105
C0JBAZ001120
IC7106
C0JBAZ001120
IC7102
C0JBAZ001120
C10
TO
C2-BOARD
(C20)
C11
TO
C2-BOARD
(C22)
VDA_75V
78V_R
C1_5V
C1_5_3V
C1_5_3V_B
D7107
B0HCMM000014
D7108
B0HCMM000014
D7105
B0HCMM000014
D7106
B0HCMM000014
L7105
J0JJC0000011
L7106
J0JJC0000011
L7107
J0JJC0000011
L7108
J0JJC0000011
C7104
100V
0.47u
C7155
100V
0.47u
C7125
16V
1u
C7168
16V
1u
C7111
50V
100p
C7167
50V
100p
R7127
2.2
R7131
2.2
R7119
2.2
R7121
2.2
R7123
47
R7133
47
R7124
47
R7122
47
R7173
EXB38V681JV
R7174
EXB38V681JV
R7126
EXB38V470JV
R7128
EXB38V470JV
R7141
EXB38V681JV
R7142
EXB38V681JV
R7159
EXB38V470JV
R7160
EXB38V470JV
R7143
EXB38V681JV
R7144
EXB38V681JV
R7161
EXB38V470JV
R7162
EXB38V470JV
R7145
EXB38V681JV
R7146
EXB38V681JV
R7163
EXB38V470JV
R7164
EXB38V470JV
R7196
10k
R7197
10k
R7102
10k
R7148
10k
R7151
680
R7152
680
R7130
680
R7134
R7135
R7136
R7137
R7138
R7139
R7140
R7147
C7169
16V
0.1u
C7136
16V
0.1u
C7137
16V
0.1u
C7138
16V
0.1u
C7130
16V
0.1u
C7139
16V
1u
R7184
R7171
R7185
R7186
22k
R7187
100k
CLKR
NCLKR
LER
PCR
AA_CLRU
AA_ODEU
AB_ODEU
AB_CLRU
CLK11
CLK12
CLK21
CLK22
LE1
LE2
LE3
LE4
P5V
5V_DET
DRV_RST
GND
CLK[2](+)
CLK[3](-)
LEU
PCU2
CLRU
ODEU
10
11
12
13
14
15
16
17
18

TH-65PHD8 SERIES
C1-Board (2 of 2) Schematic Diagram

TH-65PHD8 SERIES
C1-Board (2 of 2) Schematic Diagram

⚠ C2-BOARD TNPA3664 (1/2)

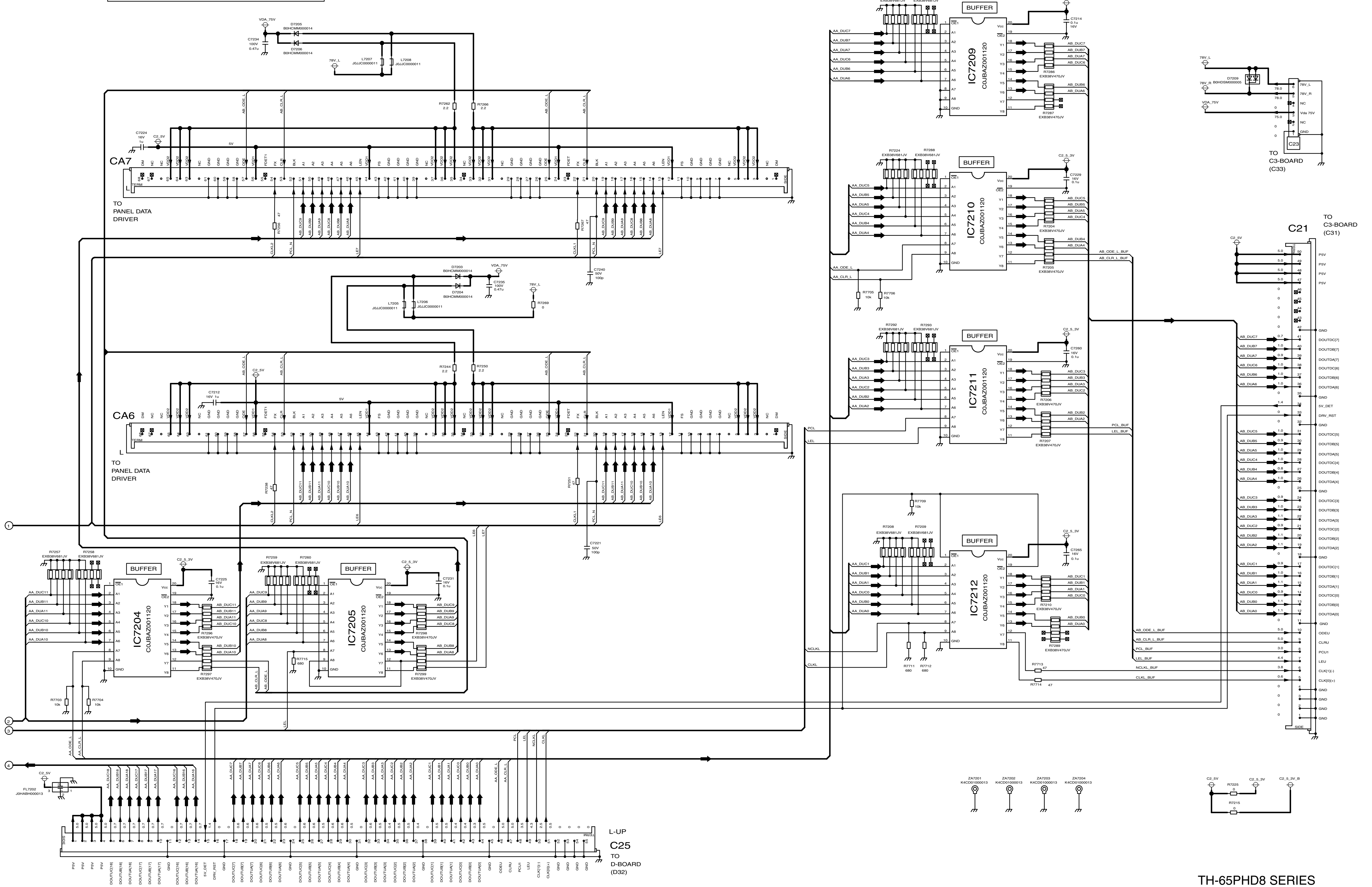


TO C1-BOARD (C11)
C22
NC
78V_R
Vda 75V
VDA_75V
GND
TO C1-BOARD (C10)
C20
P5V
5V_DET
DRV_RST
C2_5V
C7201 16V 1u
DOUTDA[14]
DOUTDB[14]
DOUTDC[14]
DOUTDA[15]
DOUTDB[15]
DOUTDC[15]
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
CLK[2](+)
CLK[3](-)
LEU
PCU2
CLRU
ODEU
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
TERM
CLKR_BUF
NCLKR_BUF
LER_BUF
PCR_BUF
AB_CLR_R_BUF
AB_ODE_R_BUF
IC7202
C0JBAZ001120
BUFFER
R7252 EXB38V681JV
R7253 EXB38V681JV
C7274 16V 0.1u
R7290 EXB38V470JV
R7291 EXB38V470JV
C2_5_3V
IC7206
C0JBAZ001120
R7201 EXB38V681JV
R7202 EXB38V681JV
C7207 16V 0.1u
R7214 EXB38V470JV
R7228 EXB38V470JV
R7701 10k
R7702 10k
AA_CLR_R
AA_ODE_R
AB_CLR_R_BUF
AB_ODE_R_BUF
IC7207
C0JBAZ001120
R7218 EXB38V681JV
R7217 EXB38V681JV
C7210 16V 0.1u
R7221 EXB38V470JV
R7222 EXB38V470JV
IC7208
C0JBAZ001120
R7232 EXB38V681JV
R7233 EXB38V681JV
C7222 0.1u 16V
R7278 EXB38V470JV
R7279 EXB38V470JV
PCR
OE1
OE2
Vcc
GND
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
AB_CLR_R
AB_ODE_R
D7201 B0HCMM000014
D7202 B0HCMM000014
VDA_75V
C7232 100V 0.47u
78V_L
R7263 0
L7203 J0JJC0000011
L7204 J0JJC0000011
R7227 2.2
R7230 2.2
TO PANEL DATA DRIVER
CA5
R
C7203 16V 1u
C2_5V
5V
TERM
SIDE
R7211 47
R7235 47
C7238 100p 50V
CLKR2
PCR_N
LE5
CLKR1
IC7201
C0JBAZ001120
BUFFER
R7710 10k
R7212 680
R7213 680
DRST
C2_5_3V_B
C7208 16V 0.1u
CLKCEN
NCLKCEN
R7276 0
R7277 0
R7236 0
R7237 0
R7272 0
R7273 0
R7203 680
R7274 22
R7275 22
R7247 22
R7248 22
R7280 22
R7281 22
R7282 47
R7283 47
CLKL1
CLKL2
CLKR1
CLKR2
LE5
PCR_N
LER_BUF
NCLKR_BUF
CLKR_BUF
PCR_BUF
PCL
PCL_N
IC7203
C0JBAZ001120
BUFFER
R7254 EXB38V681JV
R7255 EXB38V681JV
C7216 16V 0.1u
R7294 EXB38V470JV
R7295 EXB38V470JV
R7270 10k
R7271 10k
①
②
③
④
FL7201 J0HABH000013
C2_5V
R-UP
C24
TO D-BOARD (D31)
GND
DOUTUC[21]
DOUTUB[21]
DOUTUA[21]
DOUTUC[20]
DOUTUB[20]
DOUTUA[20]
DOUTUC[19]
DOUTUB[19]
DOUTUA[19]
DOUTUC[15]
DOUTUB[15]
DOUTUA[15]
DOUTUC[14]
DOUTUB[14]
DOUTUA[14]
ODEU
CLRU
PCU2
LEU
CLK(3)(-)
CLK(2)(+)
DOUTUC[13]
DOUTUB[13]
DOUTUA[13]
DOUTUC[12]
DOUTUB[12]
DOUTUA[12]
DOUTUC[11]
DOUTUB[11]
DOUTUA[11]
DOUTUC[10]
DOUTUB[10]
DOUTUA[10]
DOUTUC[9]
DOUTUB[9]
DOUTUA[9]
DOUTUC[8]
DOUTUB[8]
DOUTUA[8]
DRV_RST
5V_DET
P5V
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
C2-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES C2-Board (1 of 2) Schematic Diagram

⚠ C2-BOARD TNPA3664 (2/2)



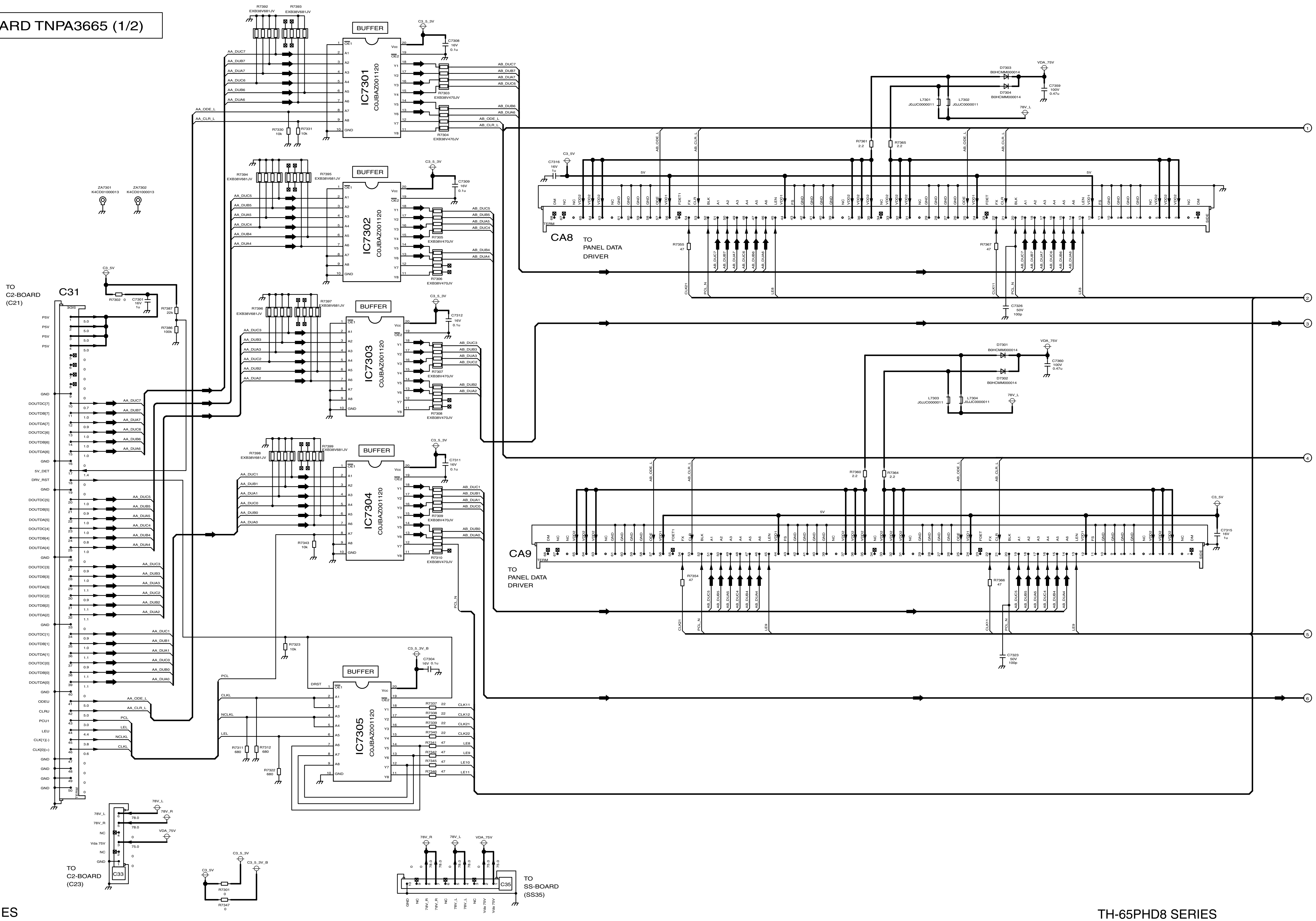
CA7
TO PANEL DATA DRIVER
CA6
TO PANEL DATA DRIVER
BUFFER
IC7209 C0JBAZ001120
IC7210 C0JBAZ001120
IC7211 C0JBAZ001120
IC7212 C0JBAZ001120
IC7204 C0JBAZ001120
IC7205 C0JBAZ001120
D7205 B0HCMM000014
D7206 B0HCMM000014
D7203 B0HCMM000014
D7204 B0HCMM000014
D7209 B0HDSM000005
L7207 J0JJC0000011
L7208 J0JJC0000011
L7205 J0JJC0000011
L7206 J0JJC0000011
VDA_75V
78V_L
78V_R
C2_5V
C2_5_3V
C2_5_3V_B
C21
TO C3-BOARD (C31)
C23
TO C3-BOARD (C33)
C25
L-UP
TO D-BOARD (D32)
FL7202 J0HABH000013
ZA7201 K4CD01000013
ZA7202 K4CD01000013
ZA7203 K4CD01000013
ZA7204 K4CD01000013
R7225
R7215
PCL
LEL
NCLKL
CLKL
AB_ODE_L_BUF
AB_CLR_L_BUF
PCL_BUF
LEL_BUF
NCLKL_BUF
CLKL_BUF
1
2
3
4

TH-65PHD8 SERIES C2-Board (2 of 2) Schematic Diagram

TH-65PHD8 SERIES
C2-Board (2 of 2) Schematic Diagram

10	11	12	13	14	15	16	17	18

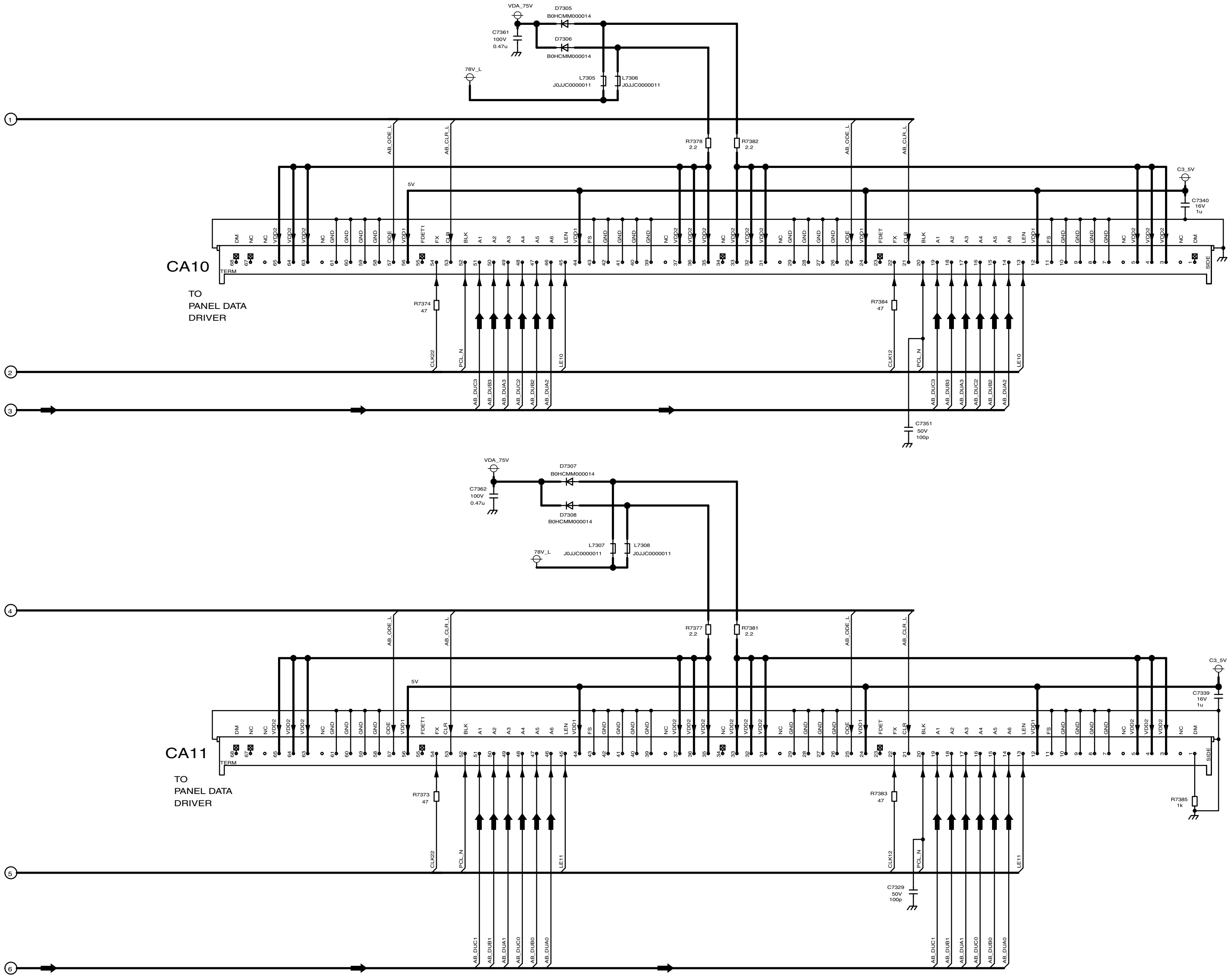
C3-BOARD TNPA3665 (1/2)


BUFFER
IC7301
C0JBAZ001120
IC7302
C0JBAZ001120
IC7303
C0JBAZ001120
IC7304
C0JBAZ001120
IC7305
C0JBAZ001120
TO
C2-BOARD
(C21)
C31
CA8
TO
PANEL DATA
DRIVER
CA9
TO
PANEL DATA
DRIVER
TO
C2-BOARD
(C23)
C33
TO
SS-BOARD
(SS35)
C35
ZA7301
K4CD01000013
ZA7302
K4CD01000013
C3_5_3V
C3_5V
VDA_75V
78V_L
78V_R
D7301
D7302
D7303
D7304
B0HCMM000014
L7301
L7302
L7303
L7304
J0JJC0000011

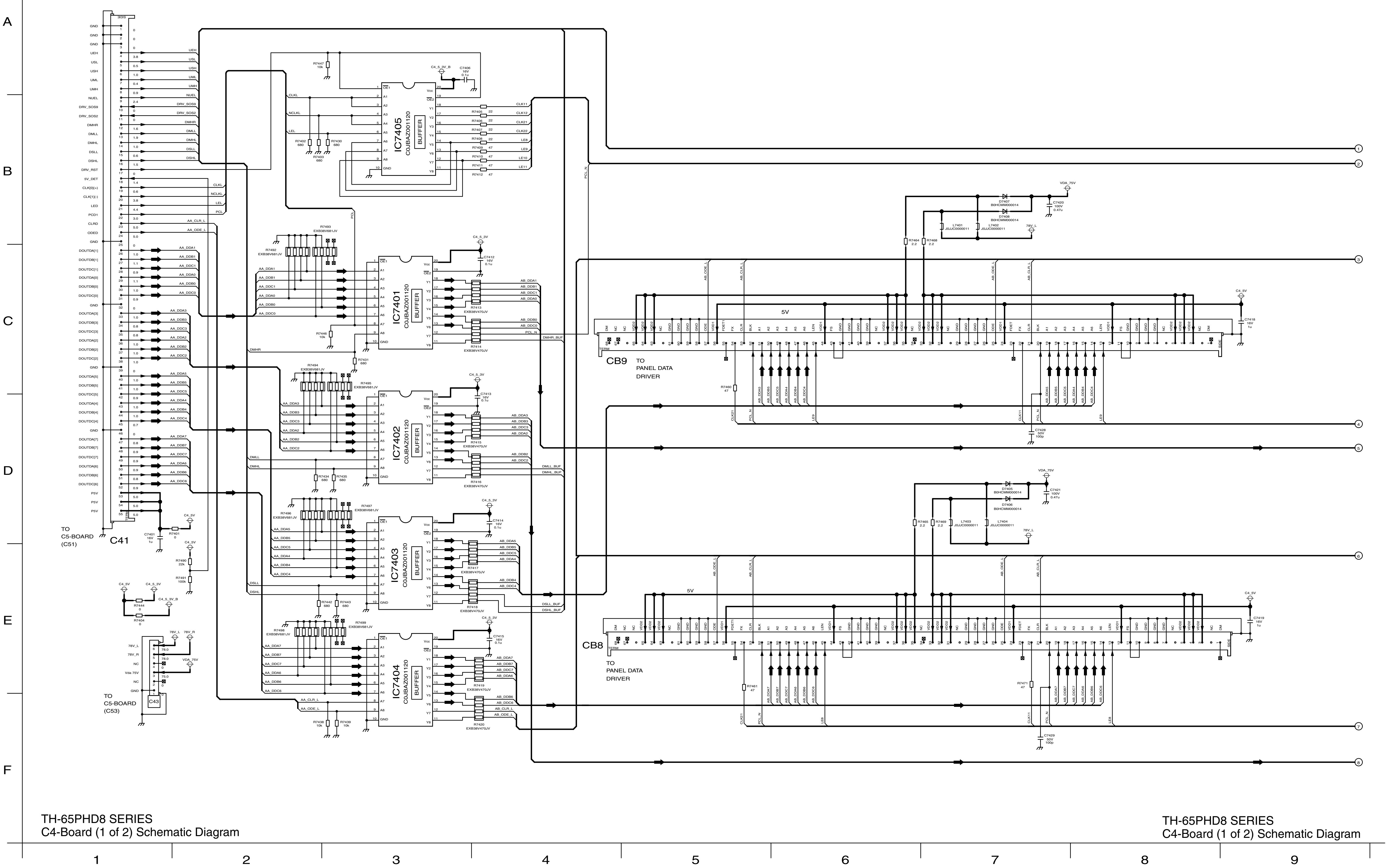
TH-65PHD8 SERIES
C3-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
C3-Board (1 of 2) Schematic Diagram

⚠ C3-BOARD TNPA3665 (2/2)


VDA_75V
C7361
100V
0.47u
D7305
B0HCMM000014
D7306
B0HCMM000014
78V_L
L7305
J0JJC0000011
L7306
J0JJC0000011
R7378
2.2
R7382
2.2
AB_ODE_L
AB_CLR_L
5V
C3_5V
C7340
16V
1u
CA10
TERM
SIDE
TO
PANEL DATA
DRIVER
R7374
47
R7384
47
CLK22
CLK12
PCL_N
LE10
AB_DUC3
AB_DUB3
AB_DUA3
AB_DUC2
AB_DUB2
AB_DUA2
C7351
50V
100p
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
VDA_75V
C7362
100V
0.47u
D7307
B0HCMM000014
D7308
B0HCMM000014
78V_L
L7307
J0JJC0000011
L7308
J0JJC0000011
R7377
2.2
R7381
2.2
C3_5V
C7339
16V
1u
CA11
TO
PANEL DATA
DRIVER
R7373
47
R7383
47
R7385
1k
CLK22
CLK12
PCL_N
LE11
C7329
50V
100p
AB_DUC1
AB_DUB1
AB_DUA1
AB_DUC0
AB_DUB0
AB_DUA0
①
②
③
④
⑤
⑥

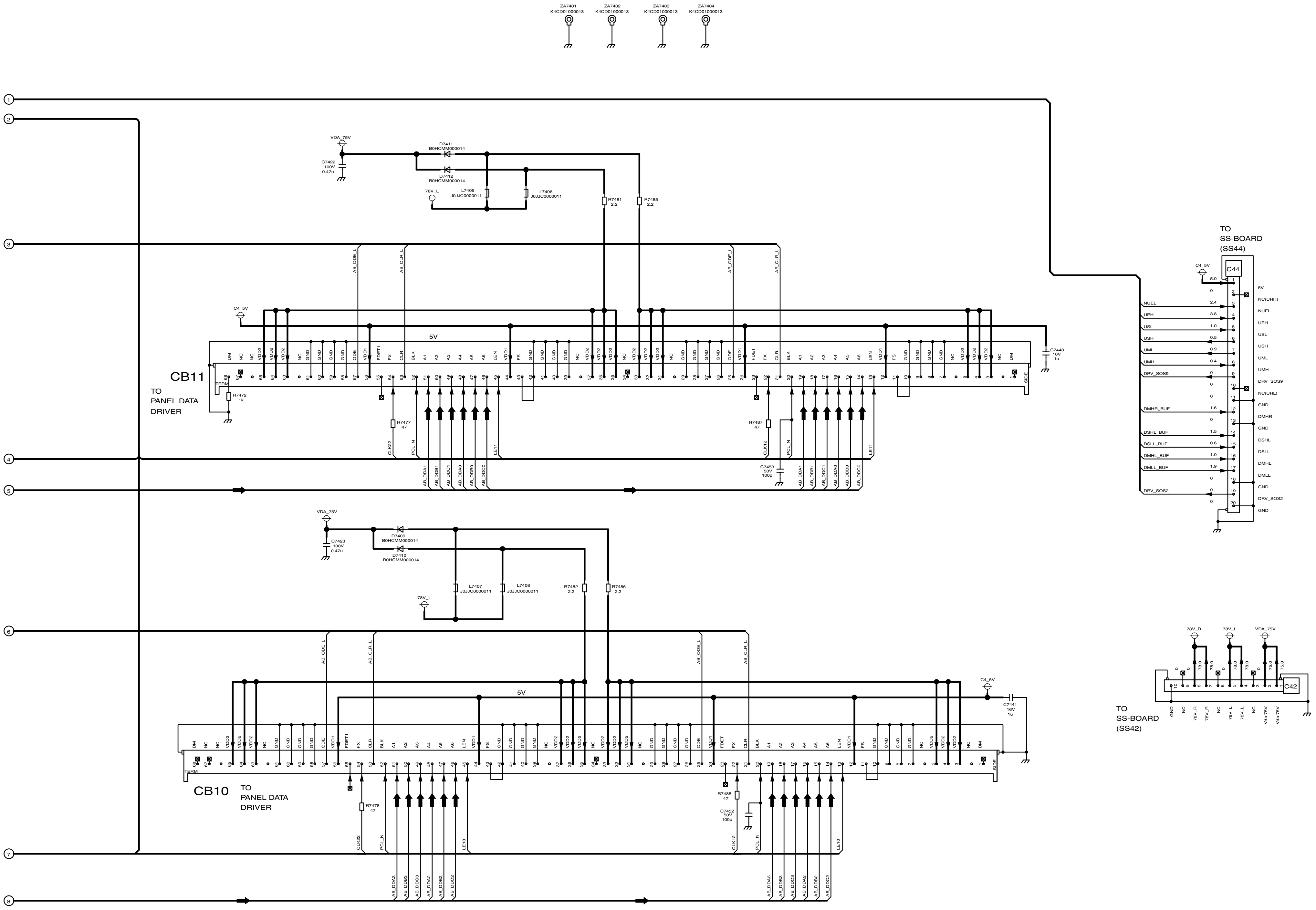
C4-BOARD TNPA3666 (1/2)

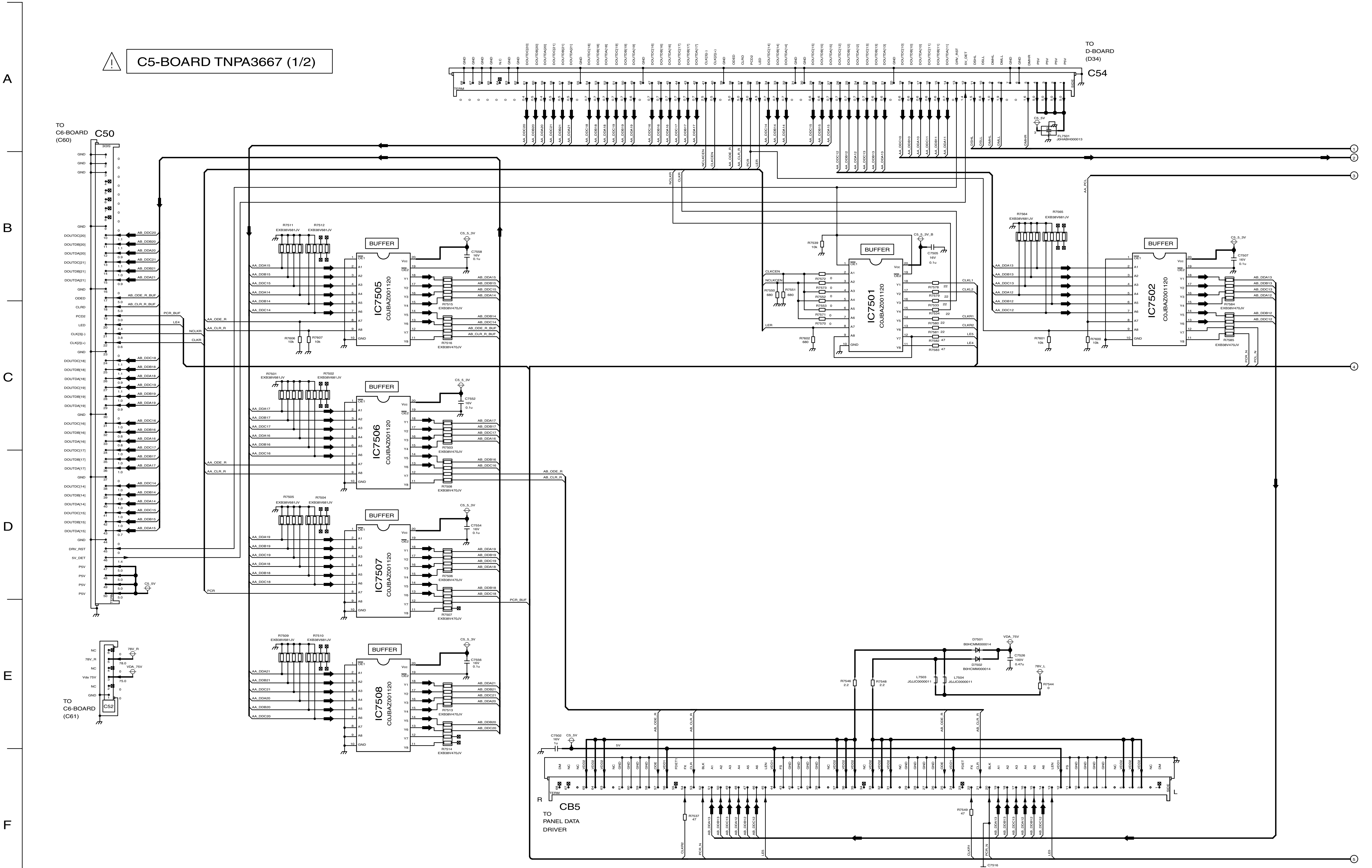

C41
TO C5-BOARD (C51)
C43
TO C5-BOARD (C53)
IC7405 C0JBAZ001120 BUFFER
IC7401 C0JBAZ001120 BUFFER
IC7402 C0JBAZ001120 BUFFER
IC7403 C0JBAZ001120 BUFFER
IC7404 C0JBAZ001120 BUFFER
CB9 TO PANEL DATA DRIVER
CB8 TO PANEL DATA DRIVER
5V
C4_5V
C4_5_3V
VDA_75V
78V_L
D7407 B0HCMM000014
D7408 B0HCMM000014
D7405 B0HCMM000014
D7406 B0HCMM000014
L7401 J0JJC0000011
L7402 J0JJC0000011
L7403 J0JJC0000011
L7404 J0JJC0000011
C7420 100V 0.47u
C7421 100V 0.47u
C7418 16V 1u
C7419 16V 1u
C7428 50V 100p
C7429 50V 100p
R7413 EXB38V470JV
R7414 EXB38V470JV
R7415 EXB38V470JV
R7416 EXB38V470JV
R7417 EXB38V470JV
R7418 EXB38V470JV
R7419 EXB38V470JV
R7420 EXB38V470JV
R7492 EXB38V681JV
R7493 EXB38V681JV
R7494 EXB38V681JV
R7495 EXB38V681JV
R7496 EXB38V681JV
R7497 EXB38V681JV
R7498 EXB38V681JV
R7499 EXB38V681JV
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
C4-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
C4-Board (1 of 2) Schematic Diagram

C4-BOARD TNPA3666 (2/2)

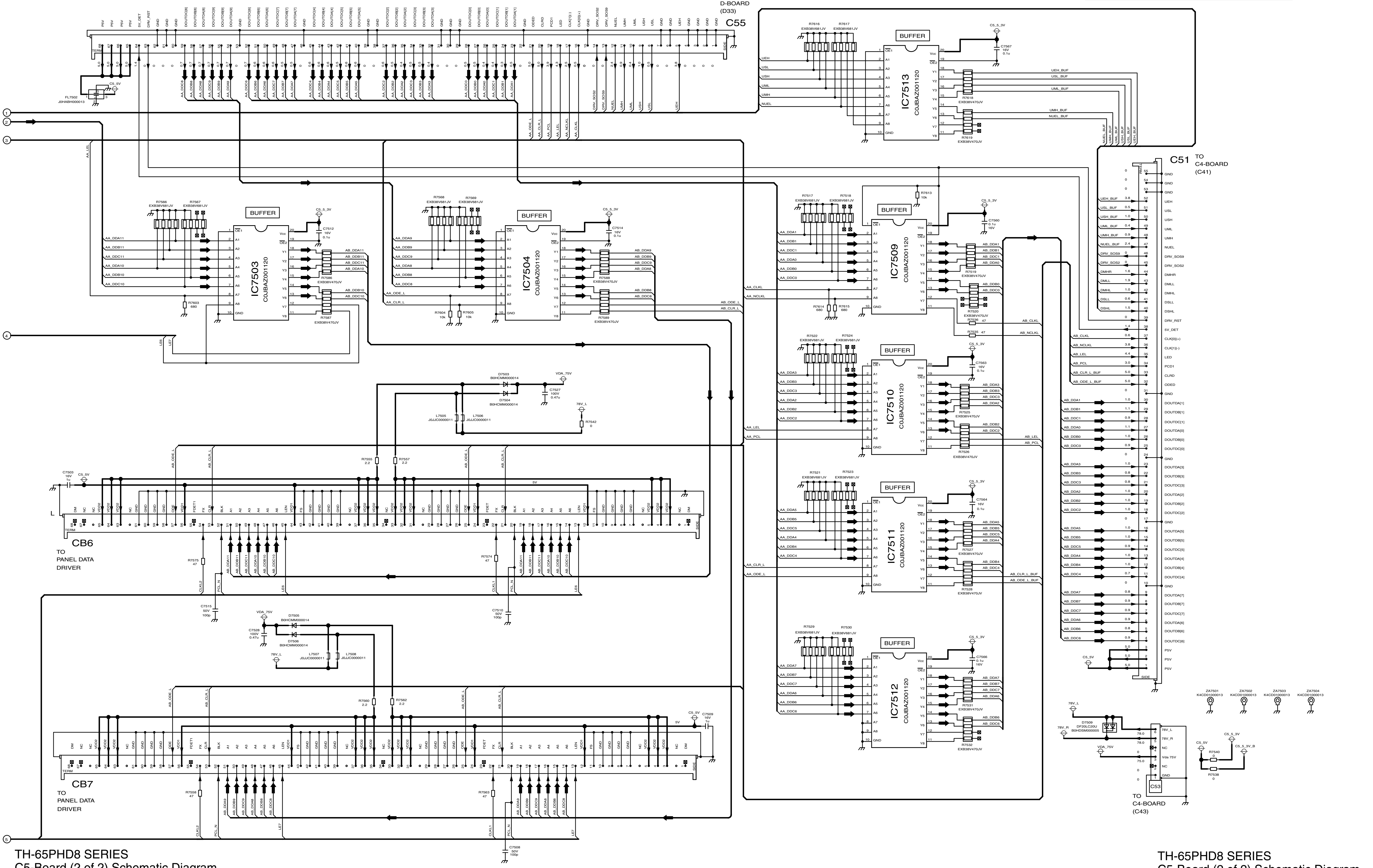

ZA7401 K4CD01000013
ZA7402 K4CD01000013
ZA7403 K4CD01000013
ZA7404 K4CD01000013
①
②
③
④
⑤
⑥
⑦
⑧
VDA_75V
C7422 100V 0.47u
D7411 B0HCMM000014
D7412 B0HCMM000014
78V_L
L7405 J0JJC0000011
L7406 J0JJC0000011
R7481 2.2
R7485 2.2
AB_ODE_L
AB_CLR_L
C4_5V
5V
C7440 16V 1u
CB11
TO
PANEL DATA
DRIVER
TERM
R7472 1k
R7477 47
R7487 47
C7453 50V 100p
CLK22
PCL_N
LE11
CLK12
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
VDA_75V
C7423 100V 0.47u
D7409 B0HCMM000014
D7410 B0HCMM000014
L7407 J0JJC0000011
L7408 J0JJC0000011
R7482 2.2
R7486 2.2
78V_L
C4_5V
C7441 16V 1u
CB10
TO
PANEL DATA
DRIVER
R7478 47
R7488 47
C7452 50V 100p
LE10
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
SIDE
TO
SS-BOARD
(SS44)
C44
C4_5V
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
DMHR_BUF
DSHL_BUF
DSLL_BUF
DMHL_BUF
DMLL_BUF
DRV_SOS2
5.0
0
2.4
3.8
1.0
0.5
0.9
0.4
0
0
0
1.6
0
1.5
0.6
1.0
1.9
0
0
0
5V
NC(URH)
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
NC(URL)
GND
DMHR
GND
DSHL
DSLL
DMHL
DMLL
GND
DRV_SOS2
GND
78V_R
78V_L
VDA_75V
C42
78.0
78.0
78.0
78.0
75.0
75.0
0
0
0
0
TO
SS-BOARD
(SS42)
GND
NC
78V_R
78V_R
NC
78V_L
78V_L
NC
Vda 75V
Vda 75V


C5-BOARD TNPA3667 (1/2)
TO D-BOARD (D34)
C54
TO C6-BOARD (C60)
C50
TO C6-BOARD (C61)
C52
BUFFER
IC7505
C0JBAZ001120
IC7506
C0JBAZ001120
IC7507
C0JBAZ001120
IC7508
C0JBAZ001120
IC7501
C0JBAZ001120
IC7502
C0JBAZ001120
R7511 EXB38V681JV
R7512 EXB38V681JV
R7501 EXB38V681JV
R7502 EXB38V681JV
R7505 EXB38V681JV
R7504 EXB38V681JV
R7509 EXB38V681JV
R7510 EXB38V681JV
R7564 EXB38V681JV
R7565 EXB38V681JV
R7515 EXB38V470JV
R7516 EXB38V470JV
R7503 EXB38V470JV
R7508 EXB38V470JV
R7506 EXB38V470JV
R7507 EXB38V470JV
R7513 EXB38V470JV
R7514 EXB38V470JV
R7584 EXB38V470JV
R7585 EXB38V470JV
C7558 16V 0.1u
C7552 16V 0.1u
C7554 16V 0.1u
C7556 16V 0.1u
C7505 16V 0.1u
C7507 16V 0.1u
C5_5.3V
C5_5V
R7606 10k
R7607 10k
R7539 10k
R7550 680
R7551 680
R7602 680
R7601 10k
R7600 10k
FL7501 J0HABH000013
D7501 B0HCMM000014
D7502 B0HCMM000014
C7526 100V 0.47u
L7503 J0JJC0000011
L7504 J0JJC0000011
VDA_75V
78V_L
78V_R
R7544 0
R7546 2.2
R7548 2.2
C7502 16V 1u
R7537 47
R7549 47
C7516 50V 100p
CB5
TO PANEL DATA DRIVER
R
L
TERM
SIDE
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
C5-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
C5-Board (1 of 2) Schematic Diagram

⚠ C5-BOARD TNPA3667 (2/2)

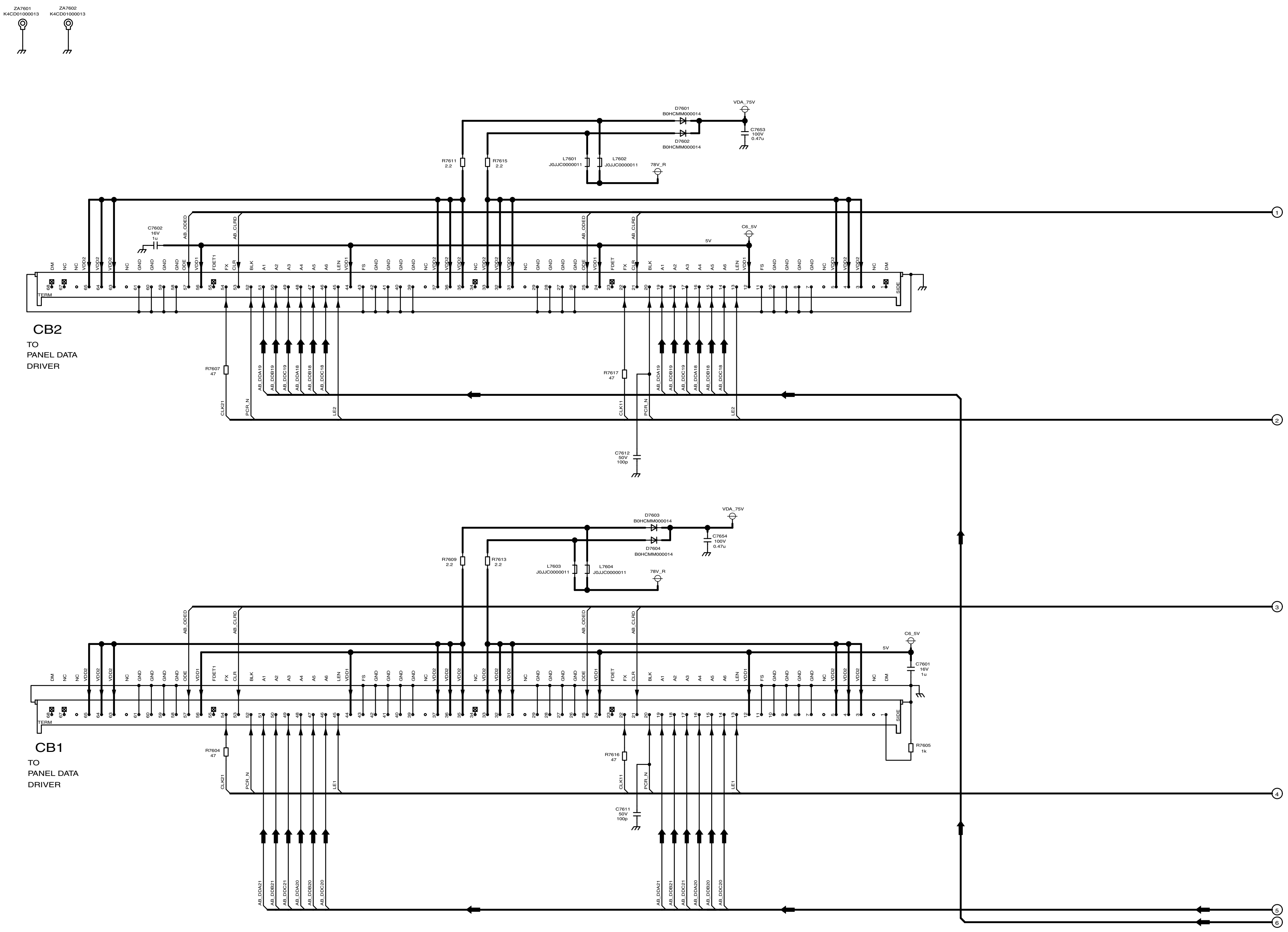

TO
D-BOARD
(D33)
C55
FL7502
J0HABH000013
C5_5V
R7616
R7617
EXB38V681JV
BUFFER
IC7513
C0JBAZ001120
C7567
16V
0.1u
C5_5_3V
R7618
R7619
EXB38V470JV
UEH_BUF
USL_BUF
UML_BUF
UMH_BUF
NUEL_BUF
C51
TO
C4-BOARD
(C41)
R7566
R7567
EXB38V681JV
BUFFER
IC7503
C0JBAZ001120
C7512
16V
0.1u
R7603
680
R7586
R7587
EXB38V470JV
R7568
R7569
BUFFER
IC7504
C0JBAZ001120
C7514
16V
0.1u
R7604
10k
R7605
10k
R7588
R7589
R7517
R7518
R7613
10k
BUFFER
IC7509
C0JBAZ001120
C7560
0.1u
16V
R7614
680
R7615
680
R7519
R7520
R7536
47
R7535
47
R7522
R7524
BUFFER
IC7510
C0JBAZ001120
C7563
16V
0.1u
R7525
R7526
R7521
R7523
BUFFER
IC7511
C0JBAZ001120
C7564
16V
0.1u
R7527
R7528
R7529
R7530
BUFFER
IC7512
C0JBAZ001120
C7566
0.1u
16V
R7531
R7532
D7503
B0HCMM000014
D7504
B0HCMM000014
VDA_75V
C7527
100V
0.47u
L7505
J0JJC0000011
L7506
J0JJC0000011
78V_L
R7542
0
R7555
2.2
R7557
2.2
C7503
16V
1u
C5_5V
5V
L
CB6
TO
PANEL DATA
DRIVER
R7575
47
R7574
47
C7515
50V
100p
C7510
50V
100p
VDA_75V
D7505
B0HCMM000014
D7506
B0HCMM000014
C7528
100V
0.47u
L7507
J0JJC0000011
L7508
J0JJC0000011
78V_L
R7560
2.2
R7562
2.2
C5_5V
C7509
16V
1u
CB7
TO
PANEL DATA
DRIVER
R7558
47
R7563
47
C7508
50V
100p
78V_L
78V_R
D7509
DF20LC20U
B0HDSM000005
VDA_75V
C53
TO
C4-BOARD
(C43)
C5_5V
R7540
0
R7538
0
C5_5_3V
C5_5_3V_B
ZA7501
ZA7502
ZA7503
ZA7504
K4CD01000013

TH-65PHD8 SERIES
C5-Board (2 of 2) Schematic Diagram

TH-65PHD8 SERIES
C5-Board (2 of 2) Schematic Diagram

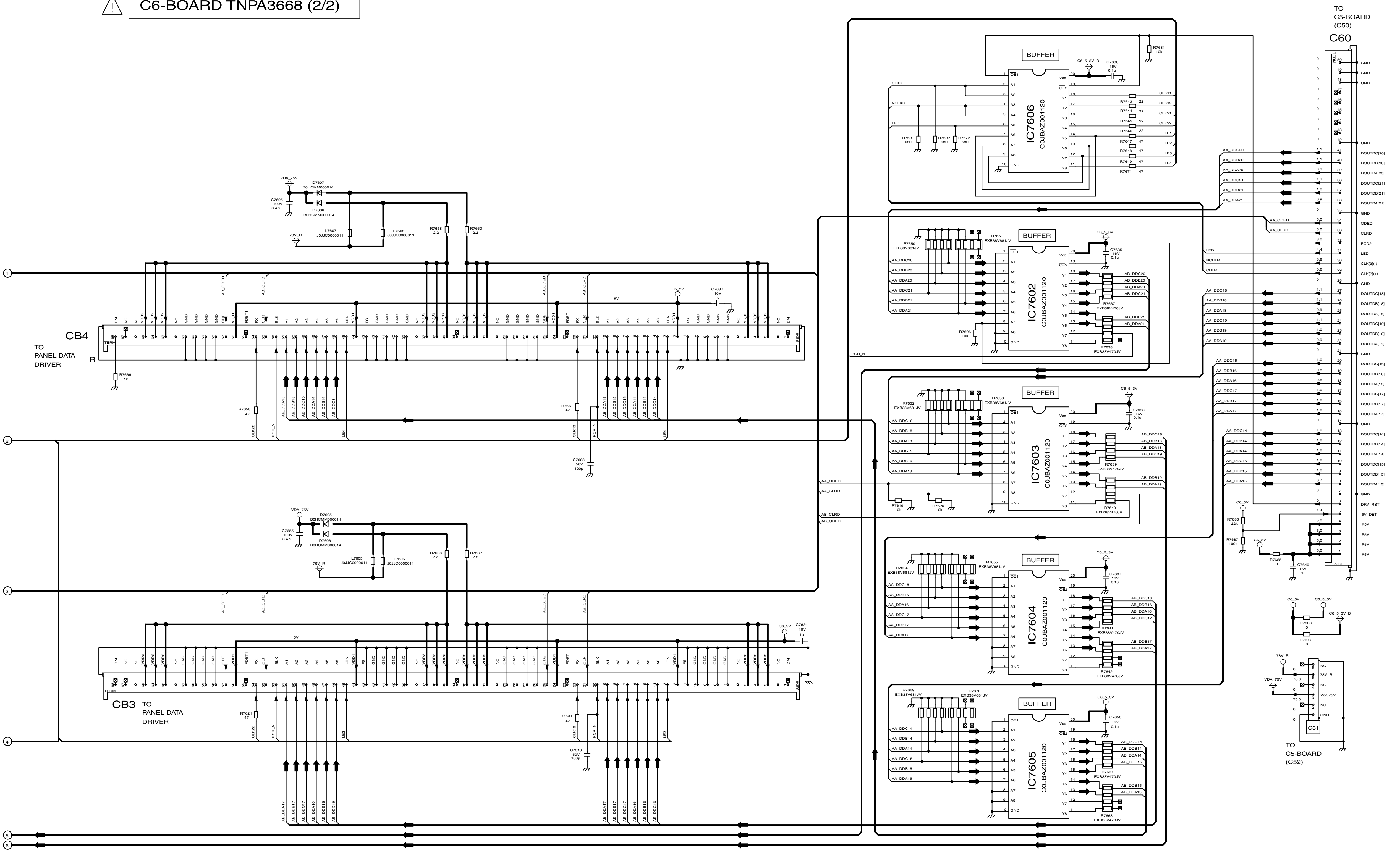
10 11 12 13 14 15 16 17 18

⚠ C6-BOARD TNPA3668 (1/2)


ZA7601
K4CD01000013
ZA7602
K4CD01000013
D7601
B0HCMM000014
D7602
B0HCMM000014
VDA_75V
C7653
100V
0.47u
R7611
2.2
R7615
2.2
L7601
J0JJC0000011
L7602
J0JJC0000011
78V_R
C7602
16V
1u
AB_ODED
AB_CLRD
C6_5V
5V
DM
NC
VDD2
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
SIDE
TERM
CB2
TO
PANEL DATA
DRIVER
R7607
47
R7617
47
AB_DDA19
AB_DDB19
AB_DDC19
AB_DDA18
AB_DDB18
AB_DDC18
CLK21
PCR_N
LE2
CLK11
C7612
50V
100p
D7603
B0HCMM000014
D7604
B0HCMM000014
C7654
100V
0.47u
R7609
2.2
R7613
2.2
L7603
J0JJC0000011
L7604
J0JJC0000011
C7601
16V
1u
R7605
1k
CB1
TO
PANEL DATA
DRIVER
R7604
47
R7616
47
LE1
C7611
50V
100p
AB_DDA21
AB_DDB21
AB_DDC21
AB_DDA20
AB_DDB20
AB_DDC20
①
②
③
④
⑤
⑥
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
C6-Board (1 of 2) Schematic Diagram

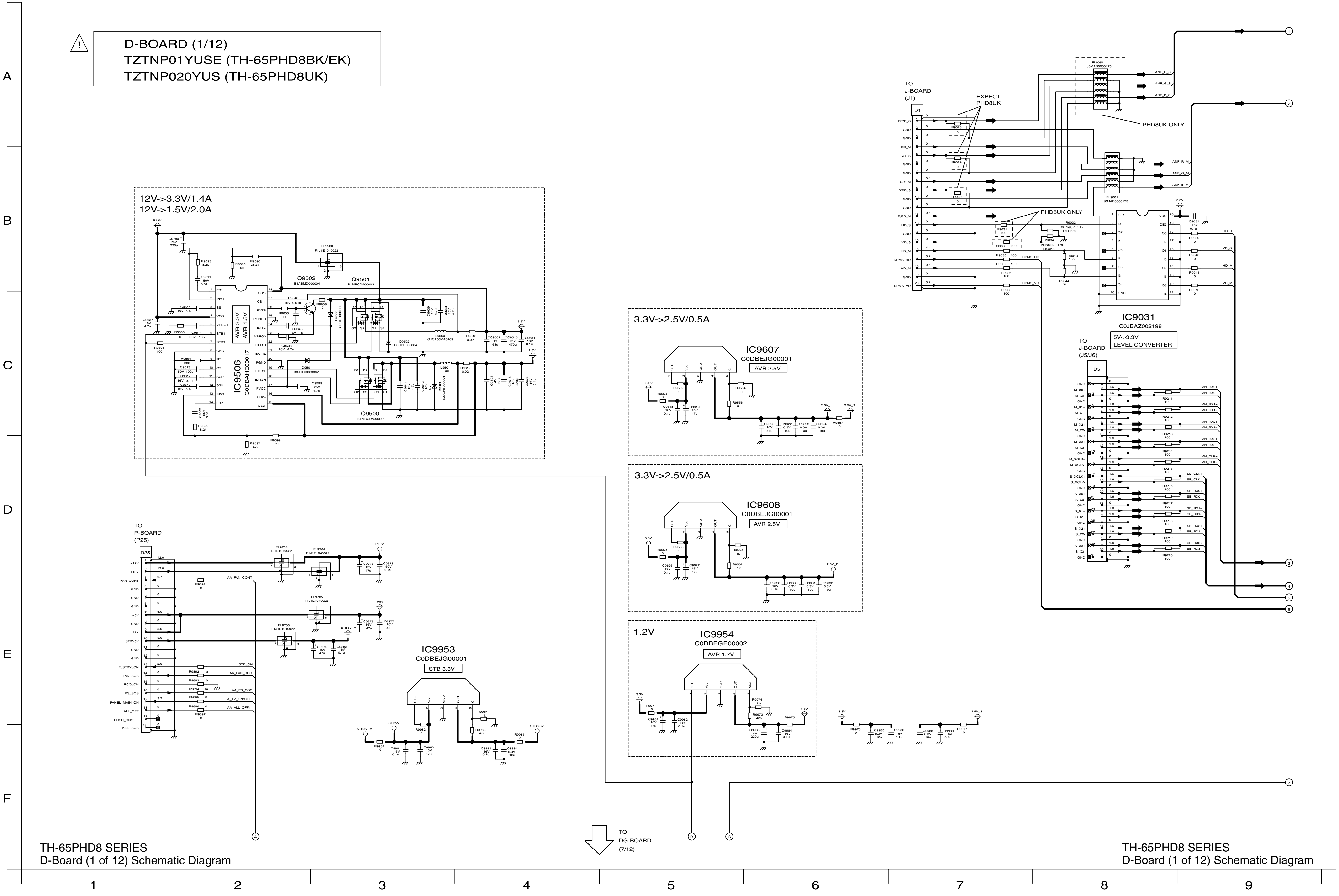
C6-BOARD TNPA3668 (2/2)

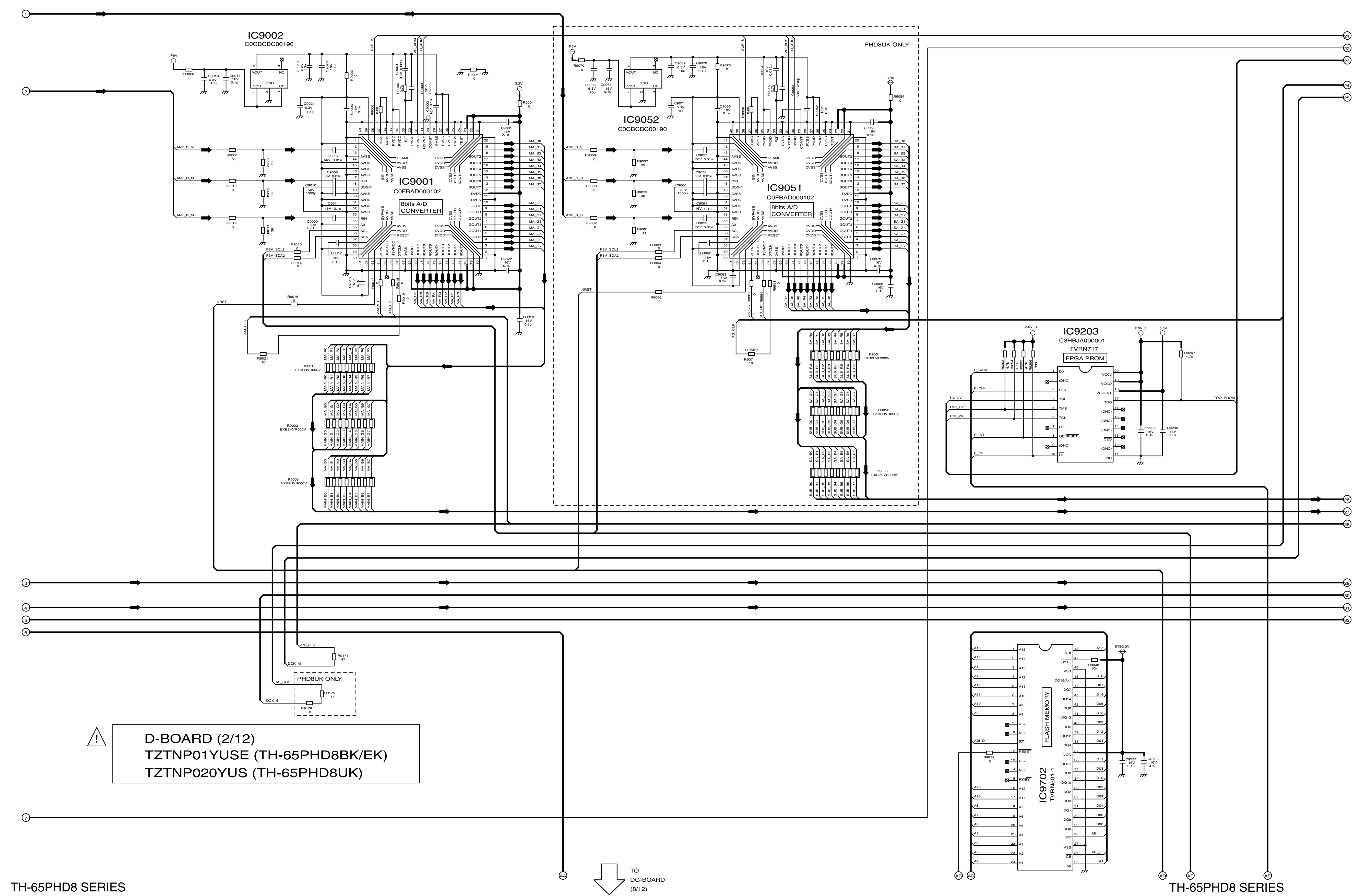


TO
C5-BOARD
(C50)
C60
BUFFER
IC7606
C0JBAZ001120
IC7602
C0JBAZ001120
IC7603
C0JBAZ001120
IC7604
C0JBAZ001120
IC7605
C0JBAZ001120
CB4
TO
PANEL DATA
DRIVER
CB3
TO
PANEL DATA
DRIVER
C61
TO
C5-BOARD
(C52)
VDA_75V
78V_R
D7607
B0HCMM000014
D7608
B0HCMM000014
D7605
B0HCMM000014
D7606
B0HCMM000014
L7607
J0JJC0000011
L7608
J0JJC0000011
L7605
J0JJC0000011
L7606
J0JJC0000011
C6_5V
C6_5_3V
C6_5_3V_B
CLKR
NCLKR
LED
PCR_N
AA_ODED
AA_CLRD
AB_CLRD
AB_ODED
DRV_RST
5V_DET
P5V
GND

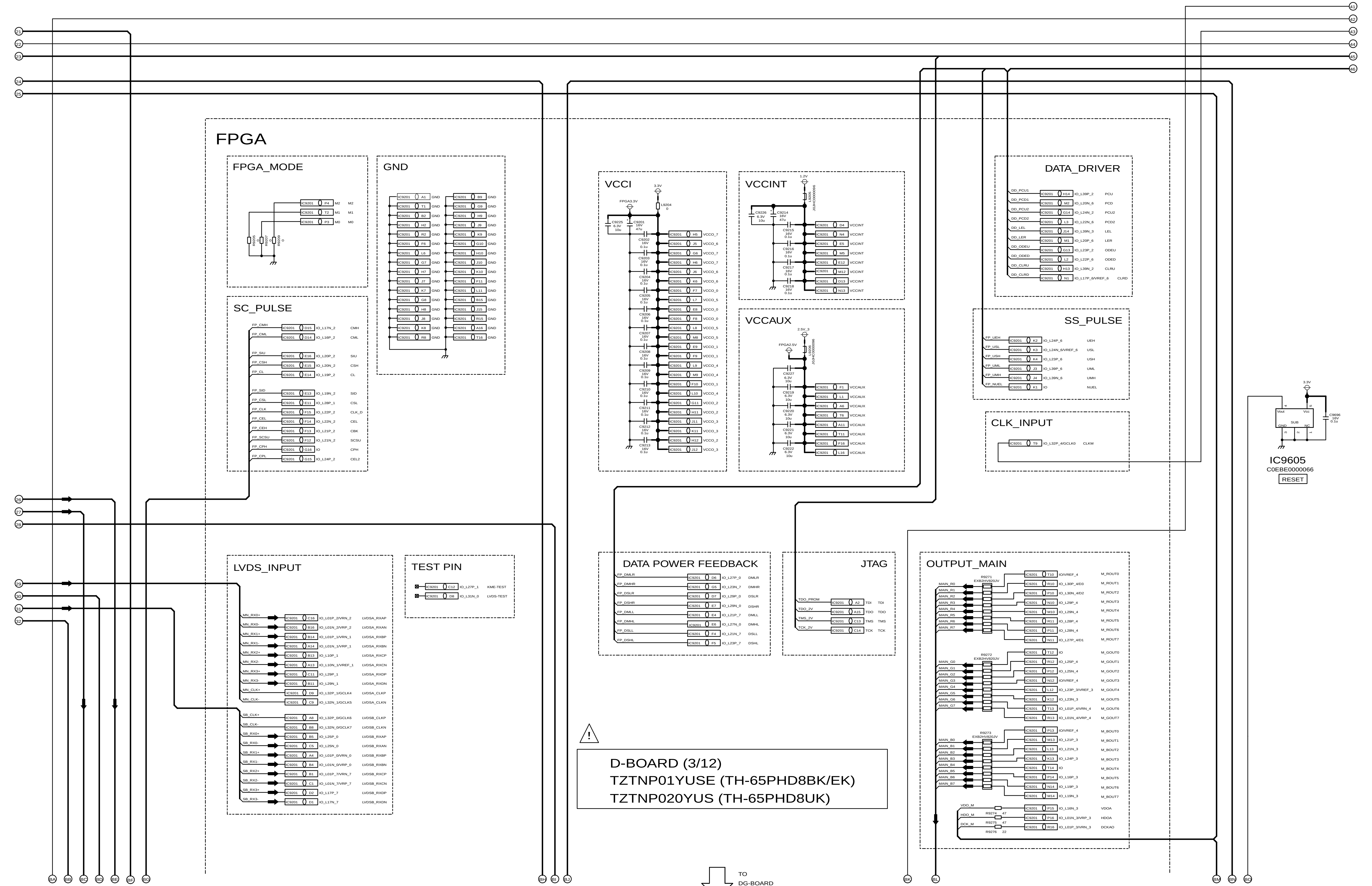
⚠

D-BOARD (1/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
12V->3.3V/1.4A
12V->1.5V/2.0A
P12V
IC9506
C0DBAHE00017
AVR 3.3V
AVR 1.5V
FB1
INV1
SS1
VCC
VREG1
STB1
STB2
GND
RT
CT
SCP
SS2
INV2
FB2
CS1-
CS1+
EXTR
PGNDC
EXTC
VREG2
EXTH1
EXTL1
PGND
EXTL2
EXTH2
PVCC
CS2+
CS2-
FL9500
F1J1E1040022
Q9502
B1ABMD000004
Q9501
B1MBCDA00002
Q9500
B1MBCDA00002
L9500
G1C150MA0169
L9501
D9500
D9501
D9502
D9503
3.3V
1.5V
3.3V->2.5V/0.5A
IC9607
C0DBEJG00001
AVR 2.5V
2.5V_1
2.5V_3
3.3V->2.5V/0.5A
IC9608
C0DBEJG00001
AVR 2.5V
2.5V_2
1.2V
IC9954
C0DBEGE00002
AVR 1.2V
CTL
Vcc
GND
OUT
C
ADJ
IC9953
C0DBEJG00001
STB 3.3V
STB5V_M
STB5V
STB3.3V
TO
P-BOARD
(P25)
D25
+12V
+12V
FAN_CONT
GND
GND
GND
+5V
GND
+5V
STBY5V
GND
GND
F_STBY_ON
FAN_SOS
ECO_ON
PS_SOS
PANEL_MAIN_ON
ALL_OFF
RUSH_ON/OFF
KILL_SOS
FL9703
FL9704
FL9705
FL9706
F1J1E1040022
P12V
P5V
AA_FAN_CONT
STB_ON
AA_FAN_SOS
AA_PS_SOS
A_TV_ON/OFF
AA_ALL_OFF1
TO
DG-BOARD
(7/12)
A
B
C
TO
J-BOARD
(J1)
D1
R/PR_S
GND
GND
PR_M
G/Y_S
GND
GND
G/Y_M
B/PB_S
GND
GND
B/PB_M
HD_S
GND
VD_S
HD_M
DPMS_HD
VD_M
GND
DPMS_VD
EXPECT
PHD8UK
PHD8UK ONLY
FL9051
J0MAB0000175
FL9001
J0MAB0000175
ANF_R_S
ANF_G_S
ANF_B_S
ANF_R_M
ANF_G_M
ANF_B_M
PHD8UK ONLY
IC9031
C0JBAZ002198
5V->3.3V
LEVEL CONVERTER
HD_S
VD_S
HD_M
VD_M
TO
J-BOARD
(J5/J6)
D5
GND
M_X0+
M_X0-
M_X1+
M_X1-
M_X2+
M_X2-
M_X3+
M_X3-
M_XCLK+
M_XCLK-
S_XCLK+
S_XCLK-
S_X0+
S_X0-
S_X1+
S_X1-
S_X2+
S_X2-
S_X3+
S_X3-
MN_RX0+
MN_RX0-
MN_RX1+
MN_RX1-
MN_RX2+
MN_RX2-
MN_RX3+
MN_RX3-
MN_CLK+
MN_CLK-
SB_CLK+
SB_CLK-
SB_RX0+
SB_RX0-
SB_RX1+
SB_RX1-
SB_RX2+
SB_RX2-
SB_RX3+
SB_RX3-
①
②
③
④
⑤
⑥
⑦


IC9002
C0CBCBC00190
IC9001
C0FBAD000102
8bits A/D CONVERTER
IC9052
C0CBCBC00190
IC9051
C0FBAD000102
8bits A/D CONVERTER
PHD8UK ONLY
IC9203
C3HBJA000001
TVRN717
FPGA PROM
IC9702
TVRN501-1
FLASH MEMORY
R9001 EXB2HVR000V
R9002 EXB2HVR000V
R9003 EXB2HVR000V
R9051 EXB2HVR000V
R9052 EXB2HVR000V
R9053 EXB2HVR000V
ANF_B_M
ANF_G_M
ANF_R_M
ANF_B_S
ANF_G_S
ANF_R_S
P3V_SCL2
P3V_SDA2
NRST
AM_CLK
DCK_M
AS_CLK
DCK_S
PHD8UK ONLY
P_DATA
P_CLK
TDI_2V
TMS_2V
TCK_2V
P_INT
P_CE
TDO_PROM
P5V
3.3V
2.5V_3
STB3.3V
TO
DG-BOARD
(8/12)

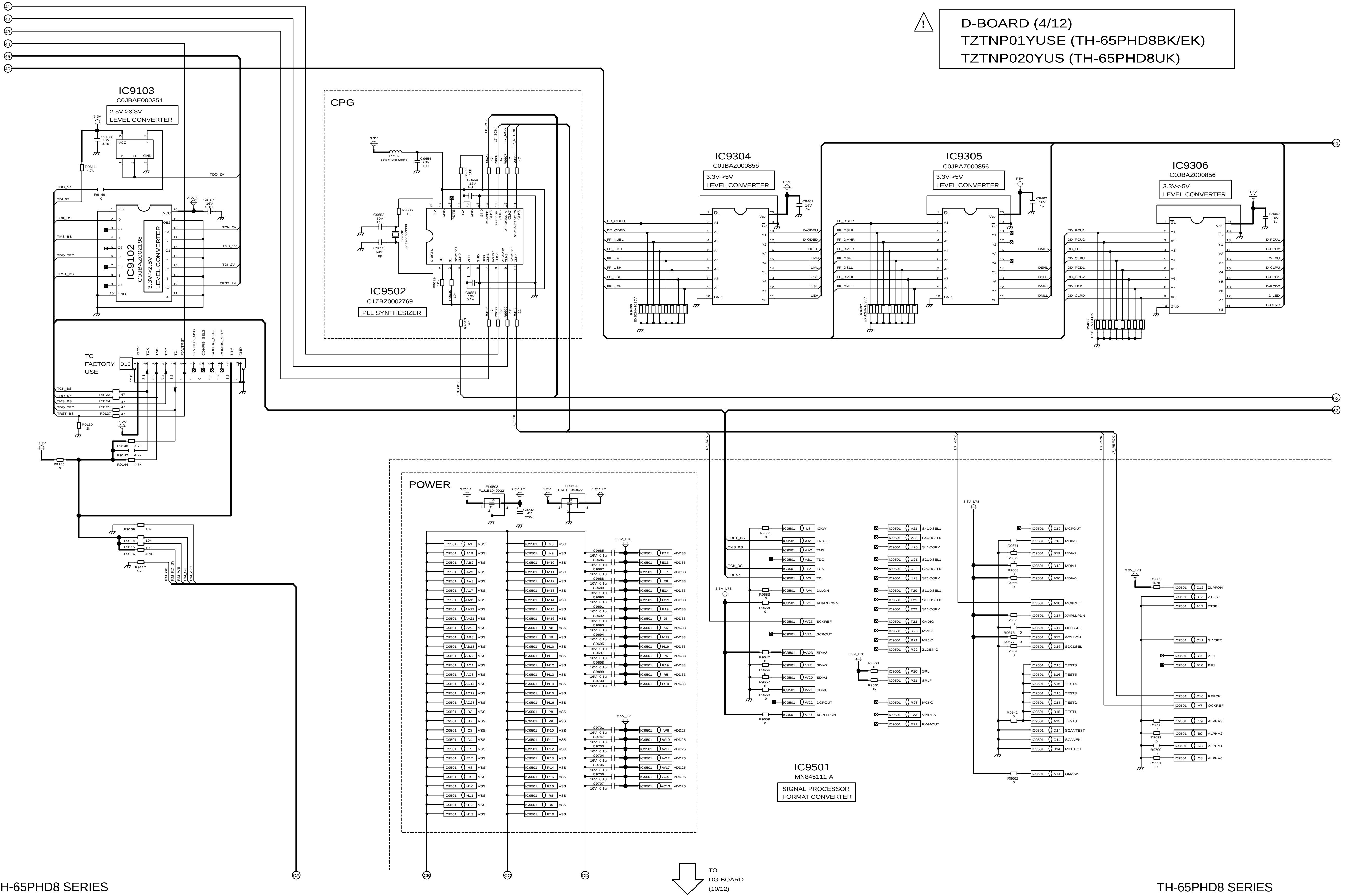
D-BOARD (2/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


FPGA
FPGA_MODE
GND
SC_PULSE
LVDS_INPUT
TEST PIN
VCCI
VCCINT
VCCAUX
DATA_DRIVER
SS_PULSE
CLK_INPUT
DATA POWER FEEDBACK
JTAG
OUTPUT_MAIN
IC9201
IC9605
C0EBE0000066
RESET
3.3V
1.2V
2.5V_3
FPGA3.3V
FPGA2.5V
D-BOARD (3/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)
TO
DG-BOARD
(9/12)
21
22
23
24
25
26
27
28
29
30
31
32
41
42
43
44
45
46
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL
BM
BN
BO
19
20
21
22
23
24
25
26
27

TH-65PHD8 SERIES
D-Board (3 of 12) Schematic Diagram

TH-65PHD8 SERIES
D-Board (3 of 12) Schematic Diagram

D-BOARD (4/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


IC9103
C0JBAE000354
2.5V->3.3V
LEVEL CONVERTER
IC9102
C0JBAZ002198
3.3V->2.5V
LEVEL CONVERTER
CPG
IC9502
C1ZBZ0002769
PLL SYNTHESIZER
IC9304
C0JBAZ000856
3.3V->5V
LEVEL CONVERTER
IC9305
C0JBAZ000856
3.3V->5V
LEVEL CONVERTER
IC9306
C0JBAZ000856
3.3V->5V
LEVEL CONVERTER
TO
FACTORY
USE
D10
POWER
IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
TO
DG-BOARD
(10/12)
TDO_2V
TCK_2V
TMS_2V
TDI_2V
TRST_2V
TCK_BS
TMS_BS
TDO_TED
TRST_BS
TDO_57
TDI_57
DD_ODEU
DD_ODED
FP_NUEL
FP_UMH
FP_UML
FP_USH
FP_USL
FP_UEH
D-ODEU
D-ODED
NUEL
UMH
UML
USH
USL
UEH
FP_DSHR
FP_DSLR
FP_DMHR
FP_DMLR
FP_DSHL
FP_DSLL
FP_DMHL
FP_DMLL
DMHR
DSHL
DSLL
DMHL
DMLL
DD_PCU1
DD_PCU2
DD_LEL
DD_CLRU
DD_PCD1
DD_PCD2
DD_LER
DD_CLRD
D-PCU1
D-PCU2
D-LEU
D-CLRU
D-PCD1
D-PCD2
D-LED
D-CLRD
L8_PCK
L7_SCK
L7_MCK
L7_REFCK
L7_OCK
L8_OCK
3.3V
P5V
2.5V_3
2.5V_1
2.5V_L7
1.5V
1.5V_L7
3.3V_L78
FL9503
F1J1E1040022
FL9504
F1J1E1040022
VSS
VDD33
VDD25
ICKW
TRSTZ
TMS
TDO
TCK
TDI
DLLON
AHARDPWN
SCKREF
SCPOUT
SDIV3
SDIV2
SDIV1
SDIV0
DCPOUT
XSPLLPDN
S4UDSEL1
S4UDSEL0
S4NCOPY
S2UDSEL1
S2UDSEL0
S2NCOPY
S1UDSEL1
S1UDSEL0
S1NCOPY
OVDIO
MVDIO
MFJIO
ZLDENIO
SRL
SRLF
MCKO
VIAREA
PWMOUT
MCPOUT
MDIV3
MDIV2
MDIV1
MDIV0
MCKREF
XMPLLPDN
NPLLSEL
WDLLON
SDCLSEL
TEST6
TEST5
TEST4
TEST3
TEST2
TEST1
TEST0
SCANTEST
SCANEN
MINTEST
OMASK
ZLPFON
ZTILD
ZTSEL
SLVSET
AFJ
BFJ
REFCK
OCKREF
ALPHA3
ALPHA2
ALPHA1
ALPHA0
RM_OE
RM_RD_BY
RM_WE
RM_CE
RM_A20
CA
CB
CC
CD

TH-65PHD8 SERIES
D-Board (4 of 12) Schematic Diagram

TH-65PHD8 SERIES
D-Board (4 of 12) Schematic Diagram

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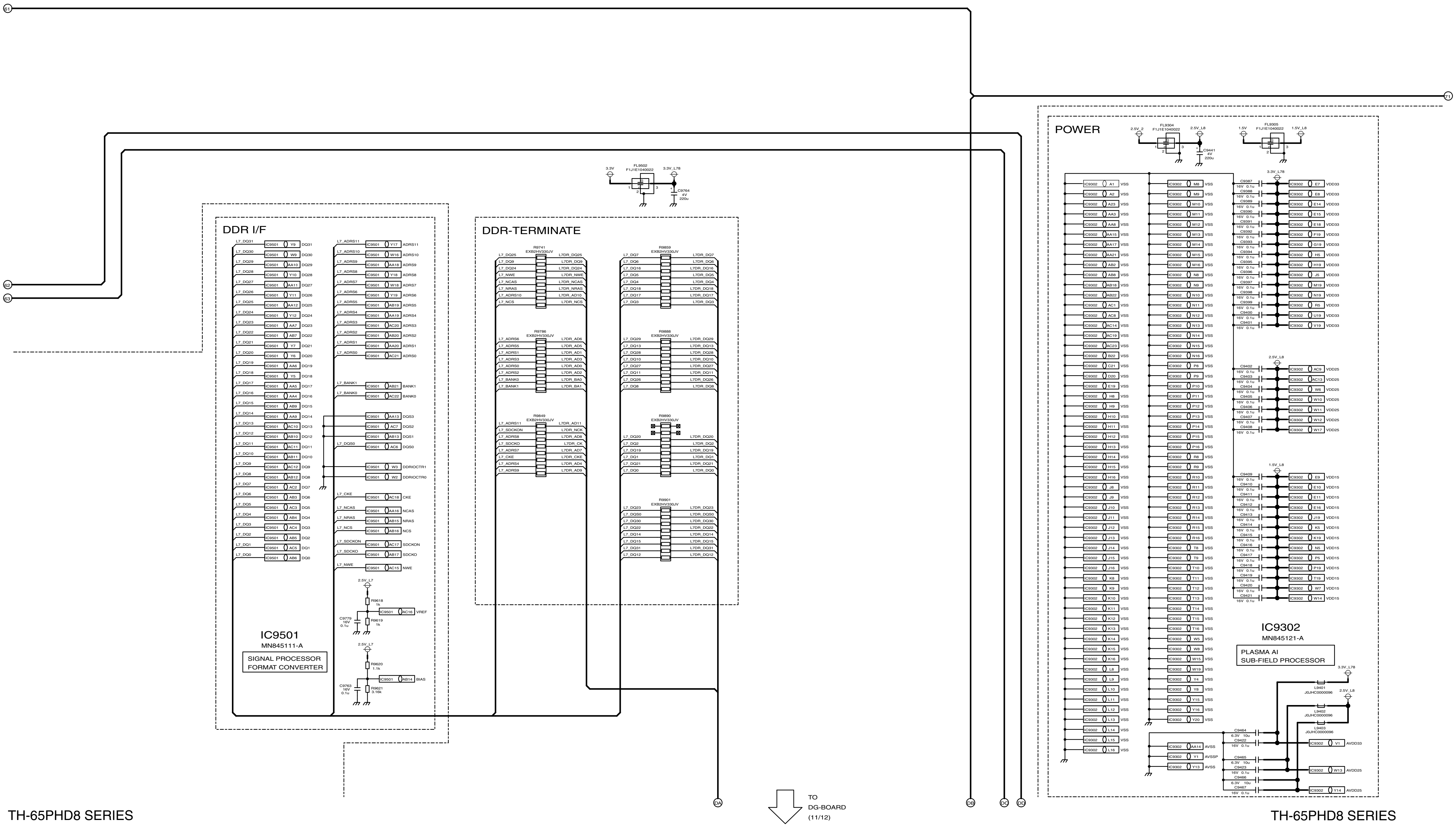
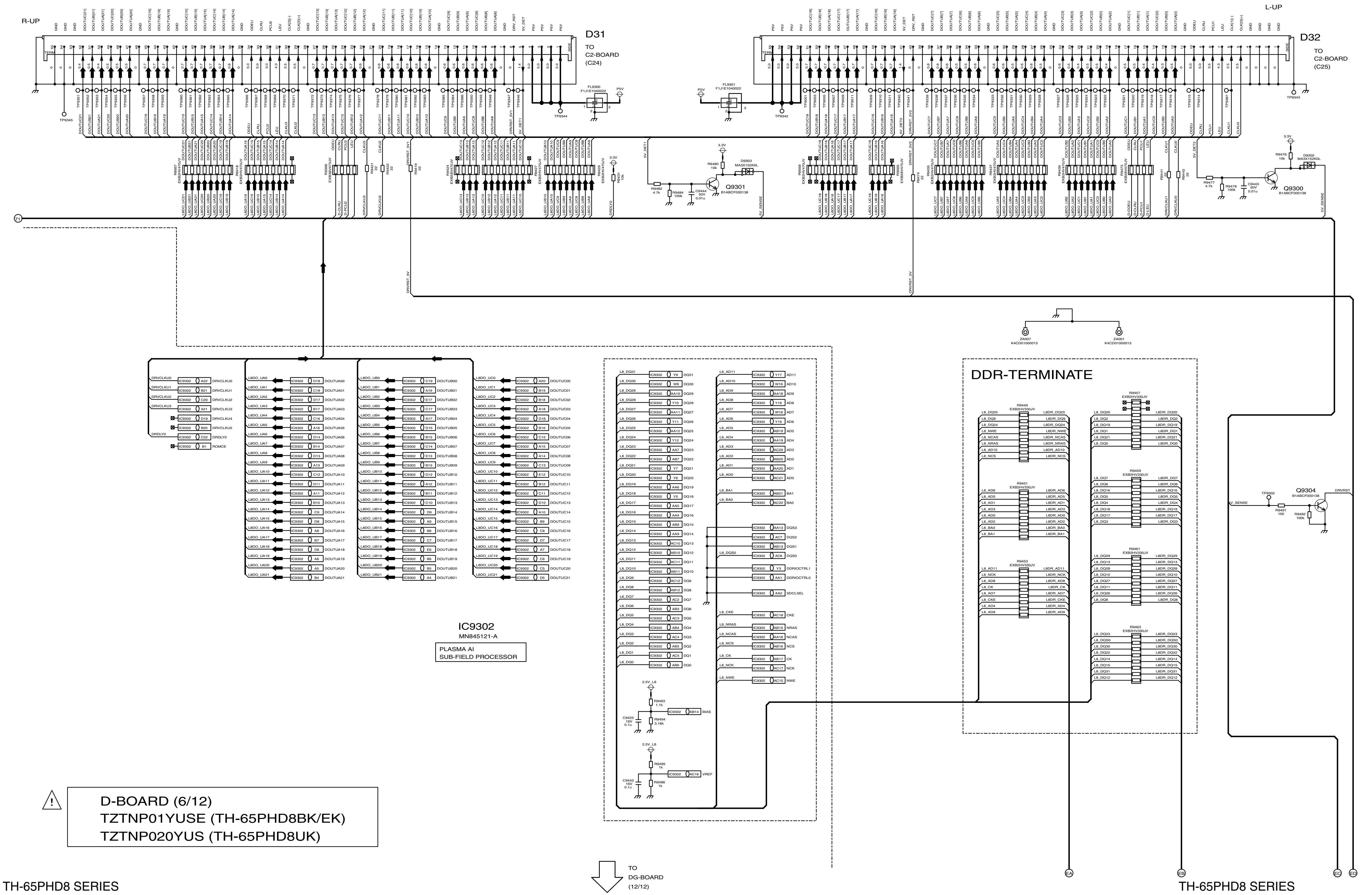
D-BOARD (5/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


61
62
63
71
DDR I/F
IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
DDR-TERMINATE
FL9502
F1J1E1040022
3.3V
3.3V_L78
C9764
4V
220u
POWER
FL9304
F1J1E1040022
2.5V_2
2.5V_L8
C9441
FL9305
F1J1E1040022
1.5V
1.5V_L8
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
DA
DB
DC
DD
TO
DG-BOARD
(11/12)

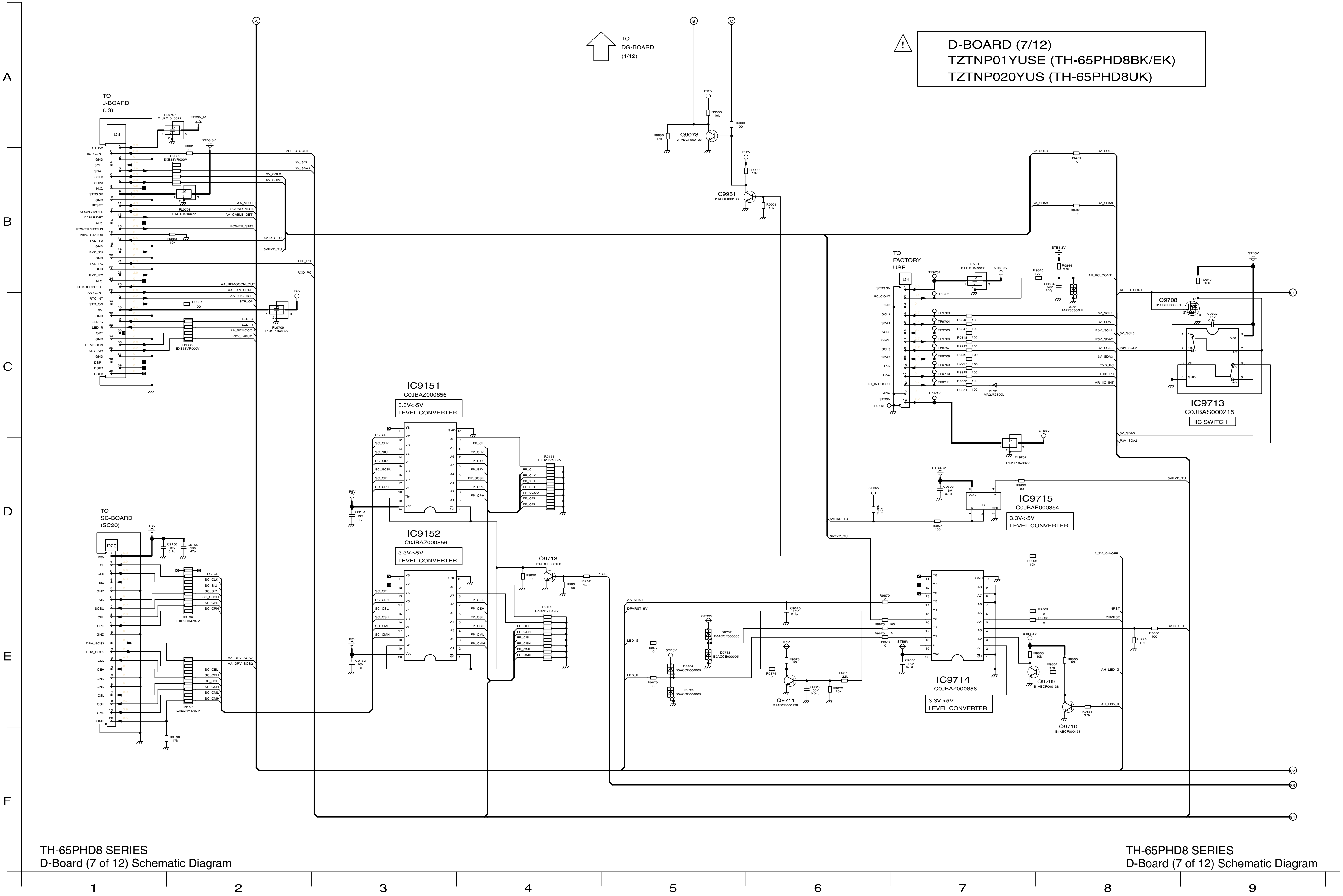
TH-65PHD8 SERIES
D-Board (5 of 12) Schematic Diagram

TH-65PHD8 SERIES
D-Board (5 of 12) Schematic Diagram

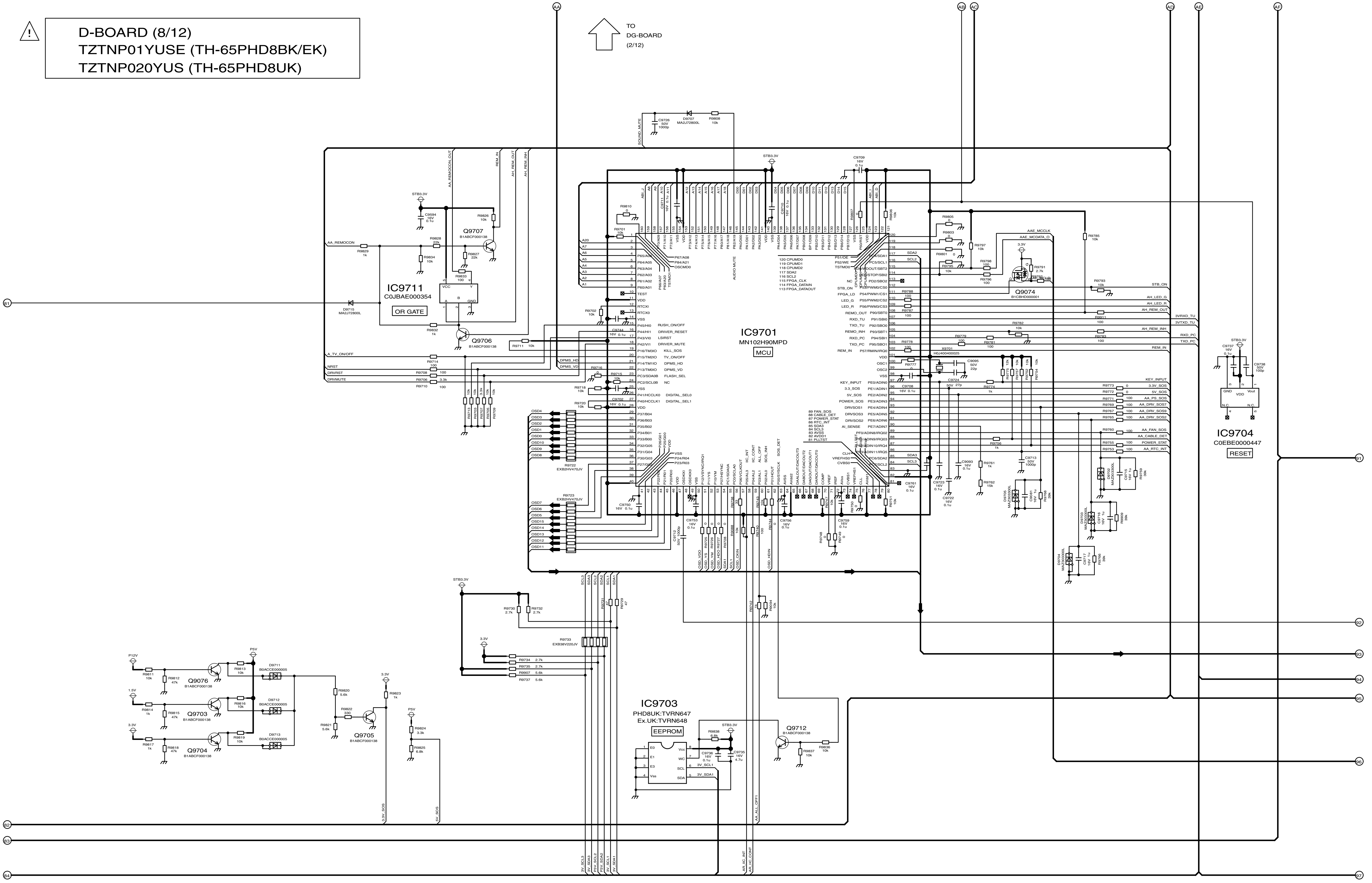

R-UP
L-UP
D31
TO
C2-BOARD
(C24)
D32
TO
C2-BOARD
(C25)
FL9300
F1J1E1040022
FL9301
F1J1E1040022
Q9301
B1ABCF000138
Q9300
B1ABCF000138
Q9304
B1ABCF000138
D9303
MA3X152K0L
D9302
MA3X152K0L
ZA007
K4CD01000013
ZA001
K4CD01000013
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
DDR-TERMINATE
TO
DG-BOARD
(12/12)

⚠ D-BOARD (6/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

⚠ D-BOARD (7/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

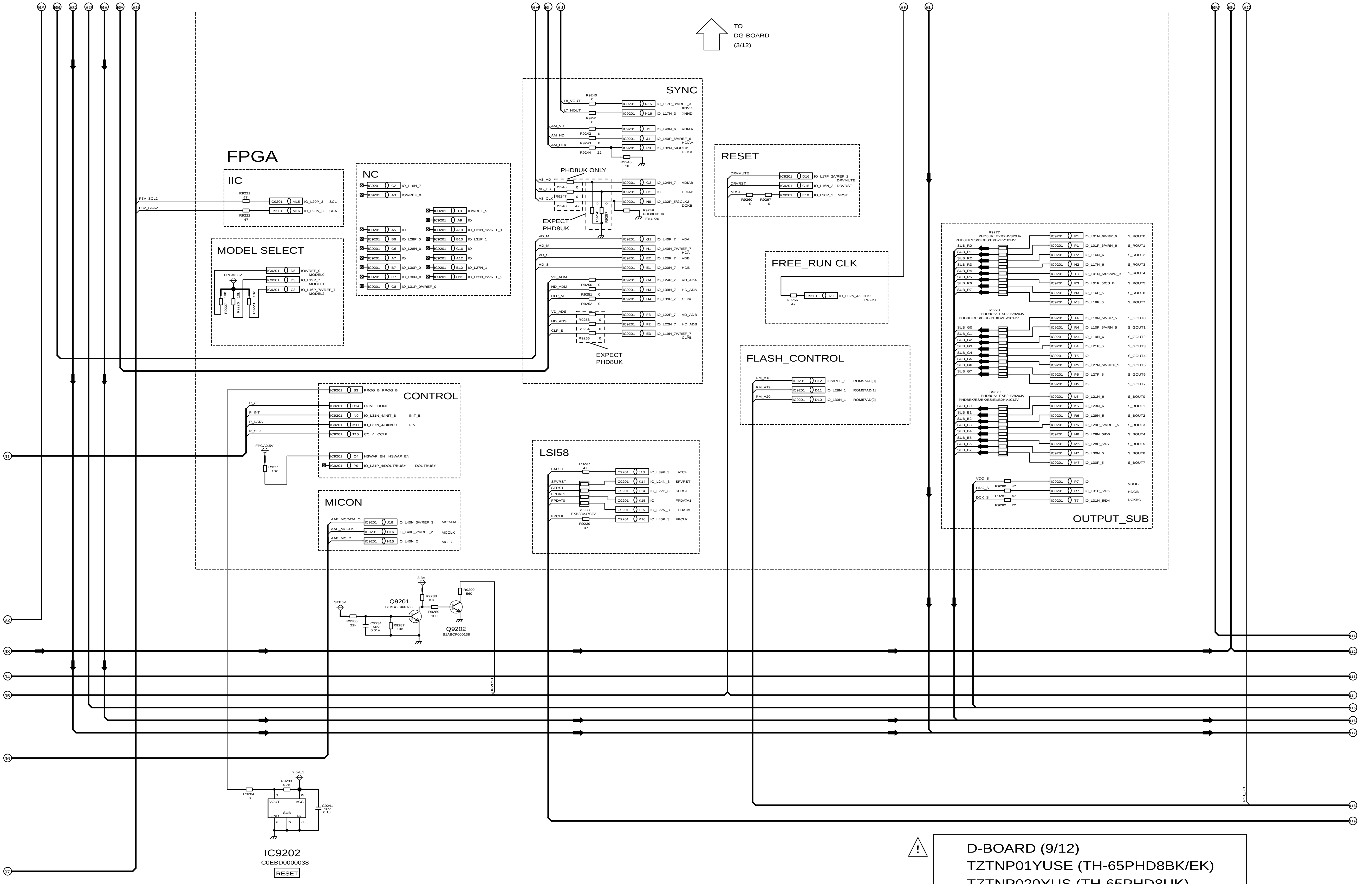

TO DG-BOARD (1/12)
TO J-BOARD (J3)
D3
TO SC-BOARD (SC20)
D20
TO FACTORY USE
D4
IC9151
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
IC9152
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
IC9714
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
IC9715
C0JBAE000354
3.3V->5V LEVEL CONVERTER
IC9713
C0JBAS000215
IIC SWITCH
Q9078
Q9951
Q9708
Q9713
Q9711
Q9709
Q9710
FL9707
FL9708
FL9709
FL9701
FL9702
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

D-BOARD (8/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


TO
DG-BOARD
(2/12)
IC9701
MN102H90MPD
MCU
IC9711
C0JBAE000354
OR GATE
IC9703
PHD8UK:TVRN647
Ex.UK:TVRN648
EEPROM
IC9704
C0EBE0000447
RESET
Q9707
B1ABCF000138
Q9706
B1ABCF000138
Q9074
B1CBHD000001
Q9076
Q9703
Q9704
Q9705
B1ABCF000138
Q9712
B1ABCF000138
D9715
MA2J72800L
D9707
MA2J72800L
D9711
D9712
D9713
B0ACCE000005
X9701
H0J400400025
R9722
EXB2HV470JV
R9723
EXB2HV470JV
R9733
EXB38V220JV
STB3.3V
P12V
P5V
1.5V
3.3V
AA_REMOCON
A_TV_ON/OFF
NRST
DRVRST
DRVMUTE
SOUND_MUTE
AUDIO MUTE
REM_IN
AH_REM_OUT
AH_REM_INH
AA_REMOCON_OUT
AAE_MCCLK
AAE_MCDATA_O
STB_ON
AH_LED_G
AH_LED_R
AH_REM_OUT
3VRXD_TU
3VTXD_TU
AH_REM_INH
RXD_PC
TXD_PC
REM_IN
KEY_INPUT
3.3V_SOS
5V_SOS
AA_PS_SOS
AA_DRV_SOS7
AA_DRV_SOS9
AA_DRV_SOS2
AA_FAN_SOS
AA_CABLE_DET
POWER_STAT
AA_RTC_INT
OSD4
OSD3
OSD2
OSD1
OSD0
OSD10
OSD9
OSD8
OSD7
OSD6
OSD5
OSD15
OSD14
OSD13
OSD12
OSD11
DPMS_HD
DPMS_VD
3V_SCL3
3V_SDA3
P5V_SCL2
P5V_SDA2
3V_SCL1
3V_SDA1
AR_IIC_INT
AR_IIC_CONT
AA_ALL_OFF1
3.3V_SOS
5V_SOS
AA
AB
AC
AD
AE
AF
B1
B2
B3
B4
B5
B6
B7
B8
B9

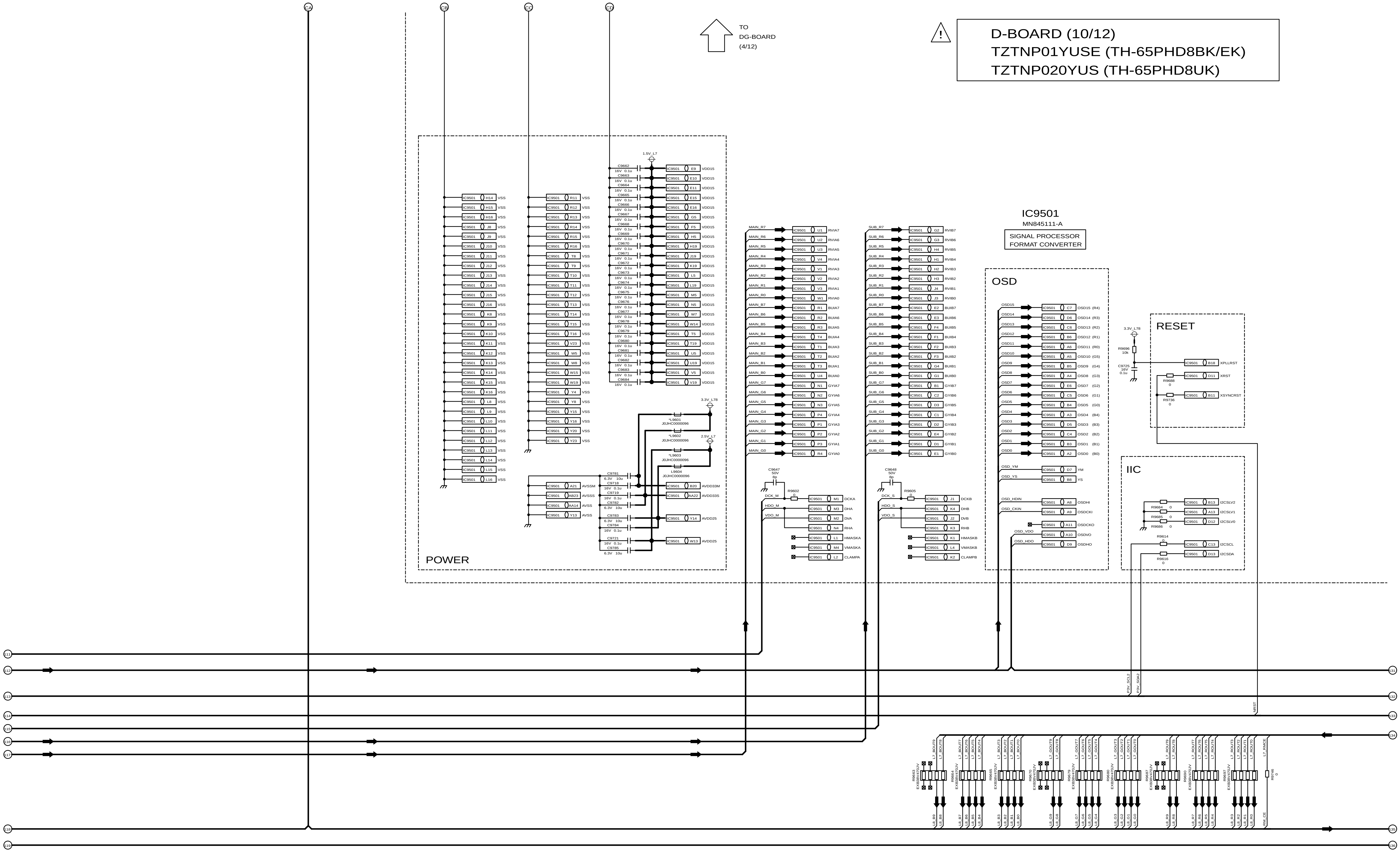
TH-65PHD8 SERIES
D-Board (8 of 12) Schematic Diagram

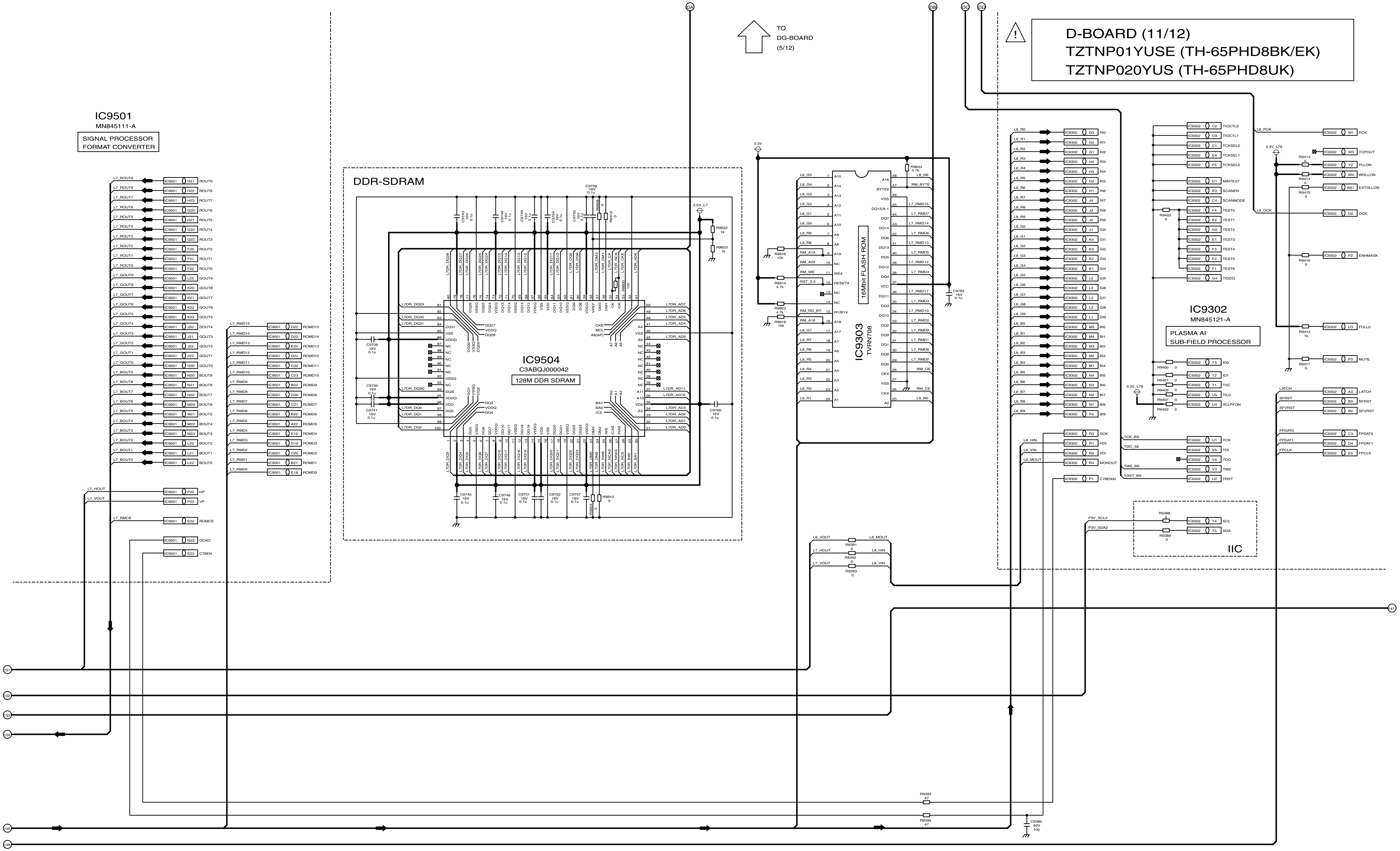
TH-65PHD8 SERIES
D-Board (8 of 12) Schematic Diagram


TO
DG-BOARD
(3/12)
FPGA
IIC
P3V_SCL2
P3V_SDA2
R9221 47
R9222 47
IC9201 M15 IO_L20P_3 SCL
IC9201 M16 IO_L20N_3 SDA
MODEL SELECT
FPGA3.3V
IC9201 D5 IO/VREF_0 MODEL0
IC9201 D3 IO_L19P_7 MODEL1
IC9201 C3 IO_L16P_7/VREF_7 MODEL2
R9227 10k
R9225 10k
R9223 10k
NC
SYNC
L8_VOUT
L7_HOUT
AM_VD
AM_HD
AM_CLK
AS_VD
AS_HD
AS_CLK
PHD8UK ONLY
EXPECT PHD8UK
VD_M
HD_M
VD_S
HD_S
VD_ADM
HD_ADM
CLP_M
VD_ADS
HD_ADS
CLP_S
RESET
DRVMUTE
DRVRST
NRST
FREE_RUN CLK
IC9201 R9 IO_L32N_4/GCLK1 PRCKI
FLASH_CONTROL
RM_A18
RM_A19
RM_A20
ROM57AD[0]
ROM57AD[1]
ROM57AD[2]
CONTROL
PROG_B
P_CE
P_INT
P_DATA
P_CLK
FPGA2.5V
HSWAP_EN
DOUTBUSY
MICON
AAE_MCDATA_O
AAE_MCCLK
AAE_MCLD
MCDATA
MCCLK
MCLD
LSI58
LATCH
SFVRST
SFRST
FPDAT1
FPDAT0
FPCLK
OUTPUT_SUB
SUB_R0 … SUB_R7
S_ROUT0 … S_ROUT7
SUB_G0 … SUB_G7
S_GOUT0 … S_GOUT7
SUB_B0 … SUB_B7
S_BOUT0 … S_BOUT7
VDO_S
HDO_S
DCK_S
VDOB
HDOB
DCKBO
Q9201 B1ABCF000138
Q9202 B1ABCF000138
STB5V
3.3V
2.5V_3
IC9202 C0EBD0000038
RESET
DRVRST
RST_3.3
BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO
91 92 93 94 95 96 97
111 112 113 114 115 116 117 118 119

D-BOARD (9/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

D-BOARD (10/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

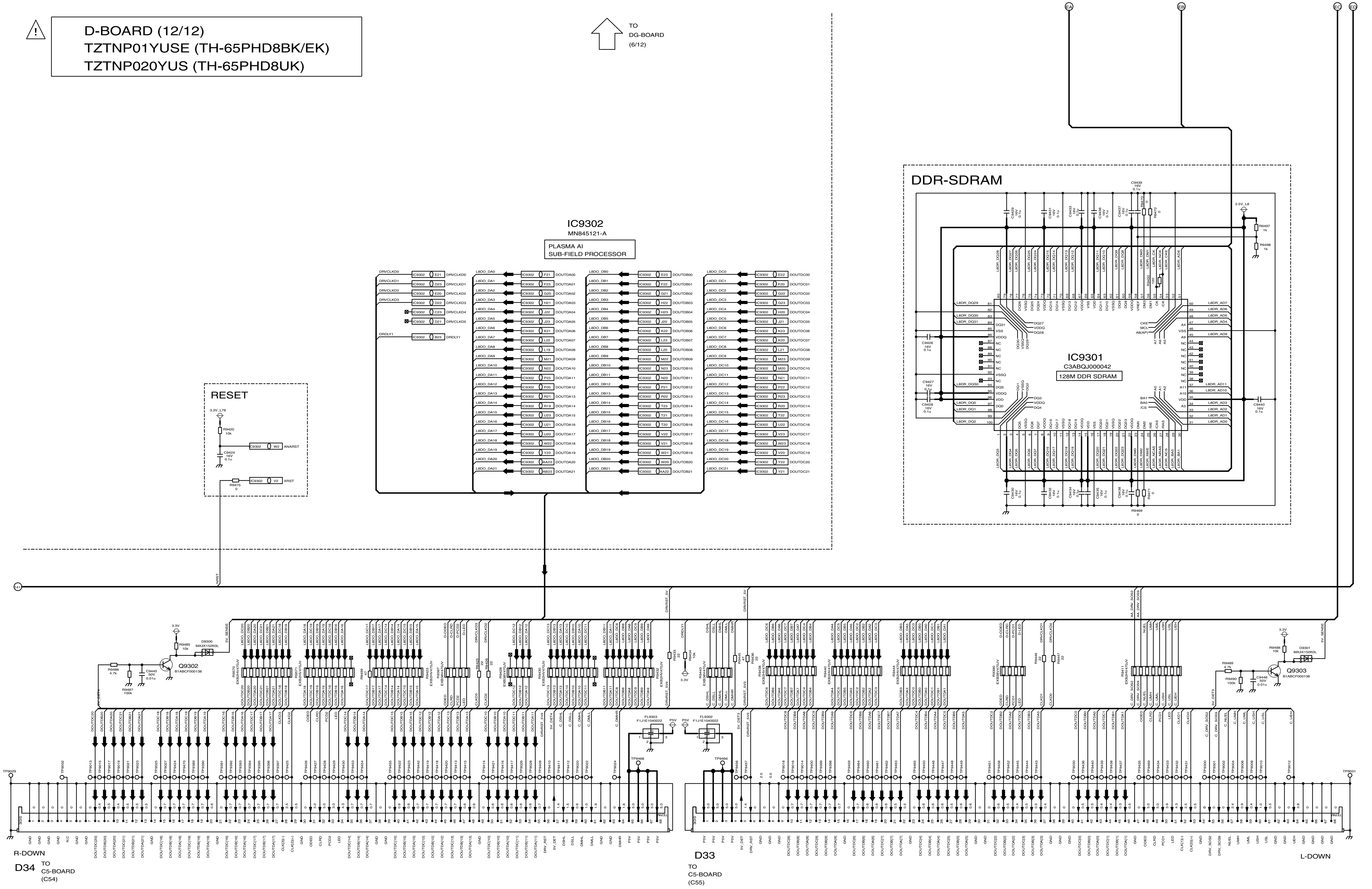

TO
DG-BOARD
(4/12)
IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
POWER
OSD
RESET
IIC
1.5V_L7
3.3V_L78
2.5V_L7
3.3V_L78

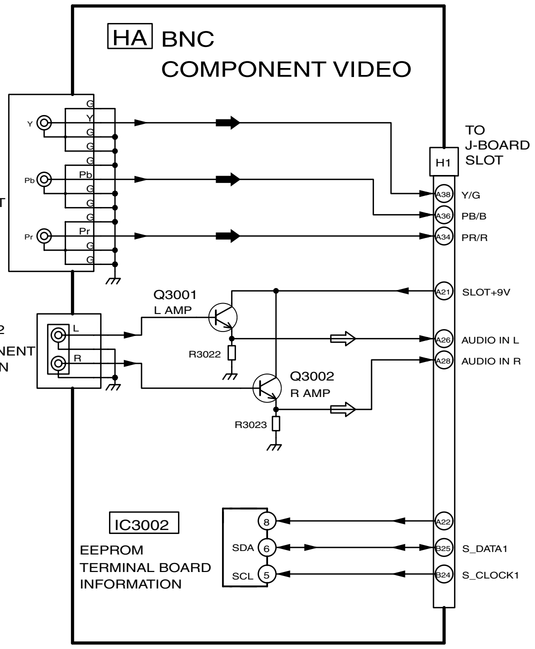


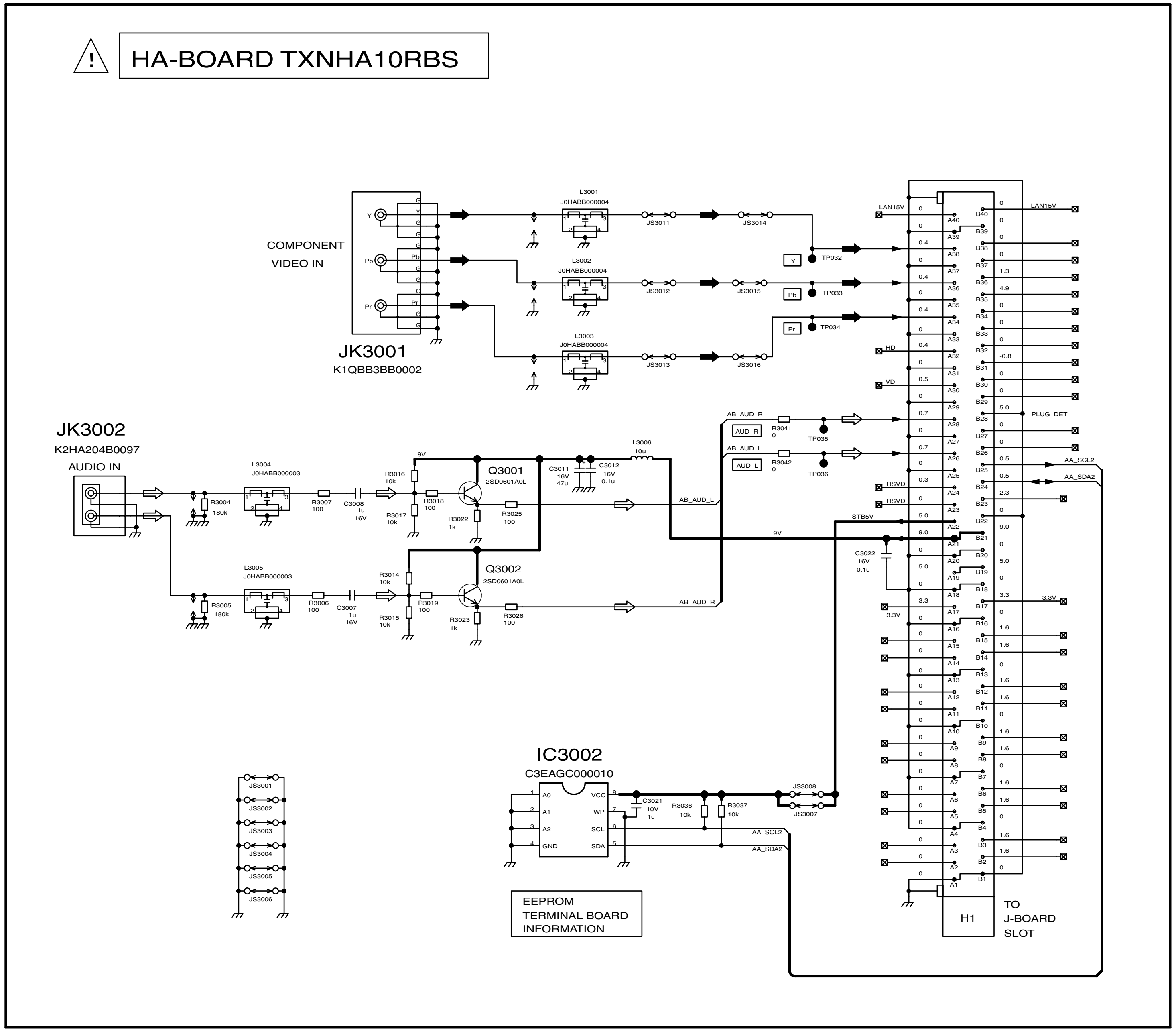
D-BOARD (11/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)
TO DG-BOARD (5/12)
IC9501
MN845111-A
SIGNAL PROCESSOR FORMAT CONVERTER
DDR-SDRAM
IC9504
C3ABQJ000042
128M DDR SDRAM
IC9303
TVRN708
16Mbit FLASH ROM
IC9302
MN845121-A
PLASMA AI SUB-FIELD PROCESSOR
IIC
DA
DB
DC
DD

TH-65PHD8 SERIES
D-Board (11 of 12) Schematic Diagram

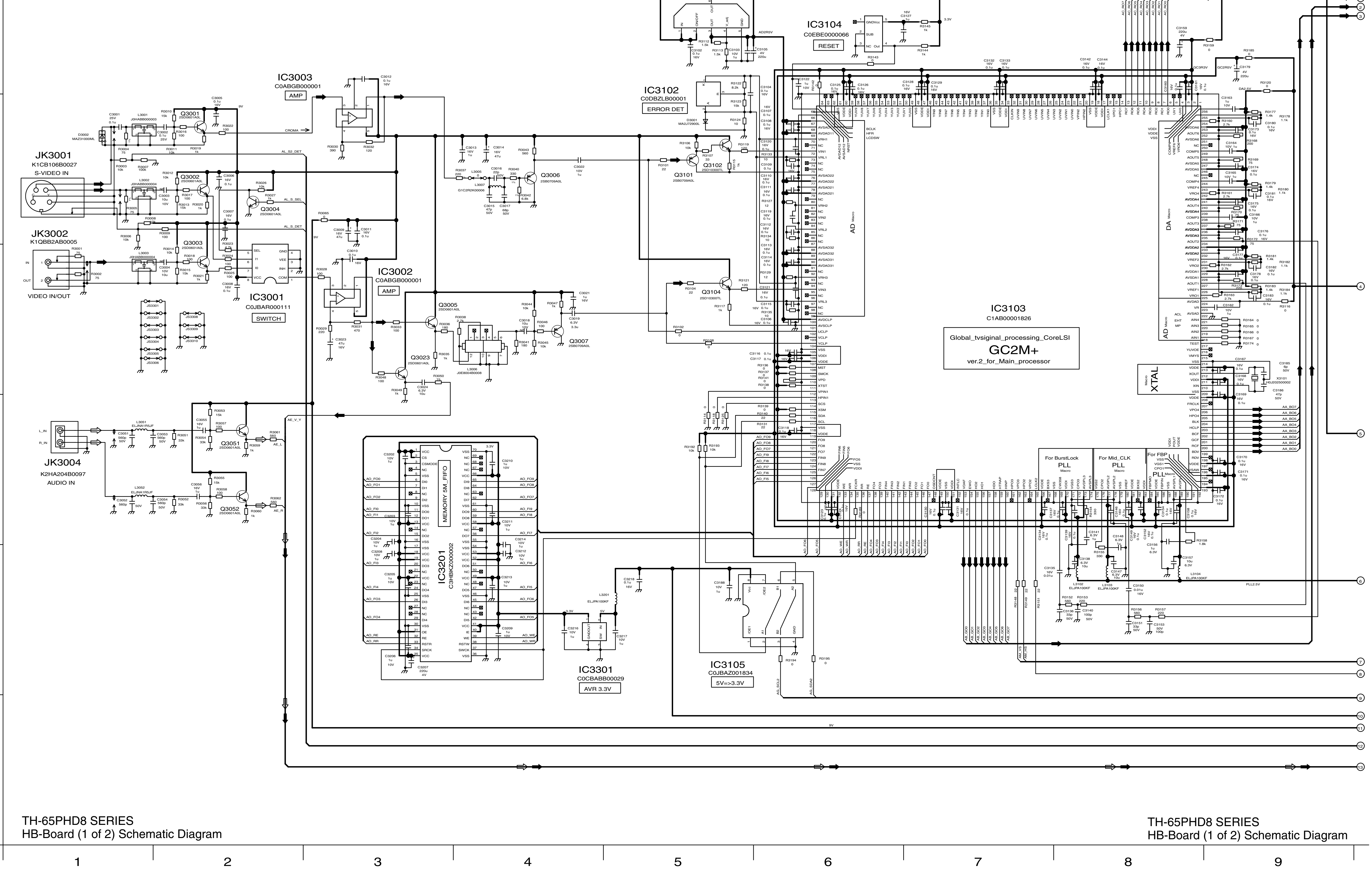
⚠ D-BOARD (12/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


TO
DG-BOARD
(6/12)
EA
EB
EC
ED
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
RESET
3.3V_L78
R9420 10k
C9424 16V 0.1u
ANARST
XRST
R9475 0
DDR-SDRAM
IC9301
C3ABQJ000042
128M DDR SDRAM
2.5V_L8
R9497 1k
R9498 1k
Q9302
B1ABCF000138
D9300
MA3X152K0L
R9485 10k
R9486 4.7k
R9487 100k
C9445 50V 0.01u
Q9303
B1ABCF000138
D9301
MA3X152K0L
R9488 10k
R9489 4.7k
R9490 100k
C9446 50V 0.01u
FL9303
F1J1E1040022
FL9302
F1J1E1040022
TP9468
TP9466
TP9029
TP9031
R-DOWN
D34
TO
C5-BOARD
(C54)
D33
TO
C5-BOARD
(C55)
L-DOWN


HA BNC
COMPONENT VIDEO
JK3001
COMPONENT
VIDEO IN
Y
Pb
Pr
TO
J-BOARD
SLOT
H1
A38 Y/G
A36 PB/B
A34 PR/R
A21 SLOT+9V
Q3001
L AMP
JK3002
COMPONENT
AUDIO IN
L
R
R3022
Q3002
R AMP
R3023
A26 AUDIO IN L
A28 AUDIO IN R
IC3002
EEPROM
TERMINAL BOARD
INFORMATION
SDA
SCL
A22
B25 S_DATA1
B24 S_CLOCK1


HA-BOARD TXNHA10RBS
COMPONENT
VIDEO IN
JK3001
K1QBB3BB0002
L3001
J0HABB000004
L3002
J0HABB000004
L3003
J0HABB000004
JS3011
JS3012
JS3013
JS3014
JS3015
JS3016
TP032
TP033
TP034
JK3002
K2HA204B0097
AUDIO IN
L3004
J0HABB000003
L3005
J0HABB000003
R3004
180k
R3005
180k
R3007
100
R3006
100
C3008
1u
16V
C3007
1u
16V
R3016
10k
R3017
10k
R3014
10k
R3015
10k
R3018
100
R3019
100
R3022
1k
R3023
1k
Q3001
2SD0601A0L
Q3002
2SD0601A0L
R3025
100
R3026
100
C3011
16V
47u
C3012
16V
0.1u
L3006
10u
9V
AB_AUD_R
AB_AUD_L
AUD_R
AUD_L
R3041
0
R3042
0
TP035
TP036
C3022
16V
0.1u
STB5V
IC3002
C3EAGC000010
A0
A1
A2
GND
VCC
WP
SCL
SDA
C3021
10V
1u
R3036
10k
R3037
10k
JS3008
JS3007
AA_SCL2
AA_SDA2
EEPROM
TERMINAL BOARD
INFORMATION
JS3001
JS3002
JS3003
JS3004
JS3005
JS3006
LAN15V
HD
VD
RSVD
3.3V
PLUG_DET
H1
TO
J-BOARD
SLOT

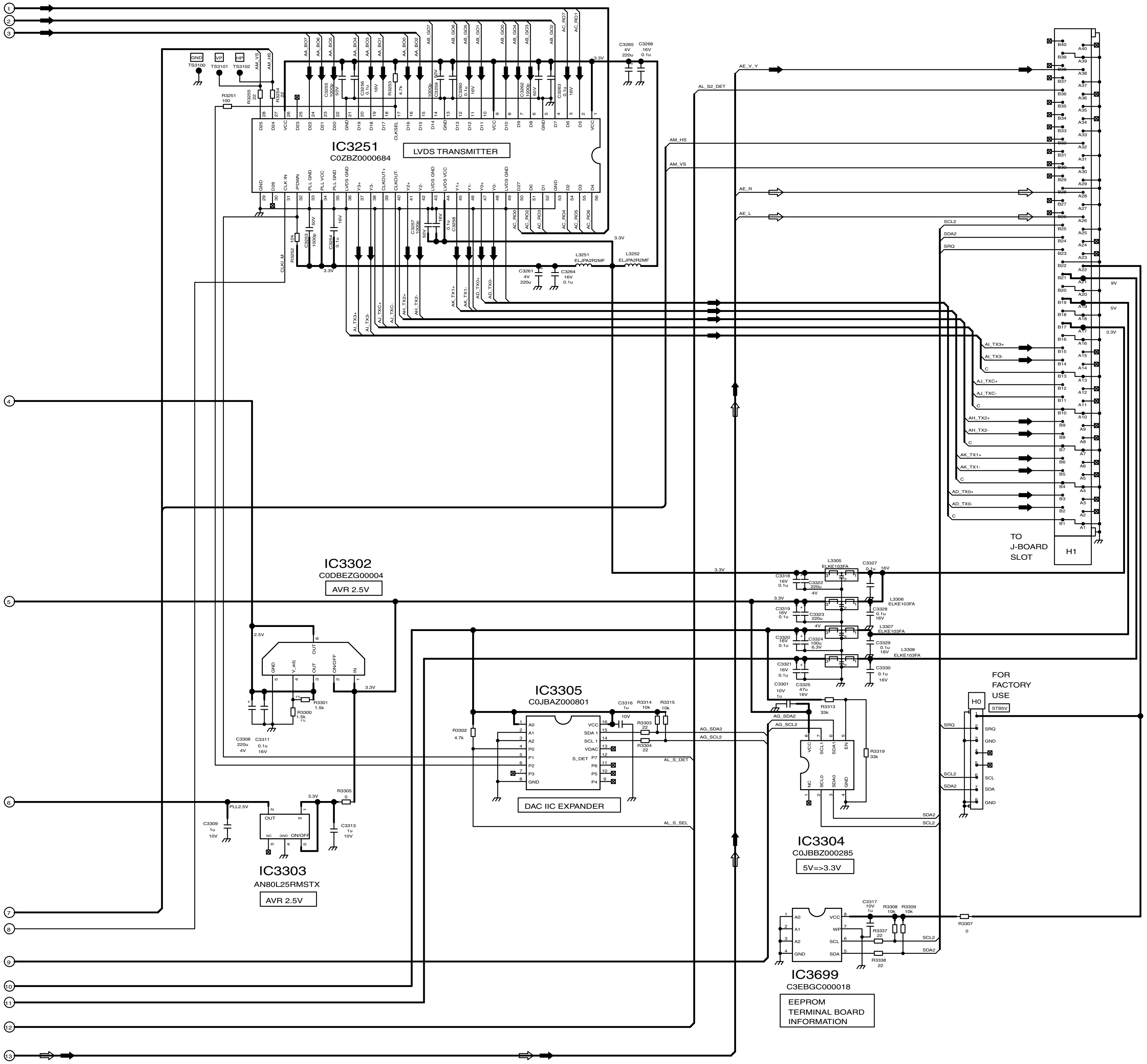
HB-BOARD TXNHB10QXS (1/2)

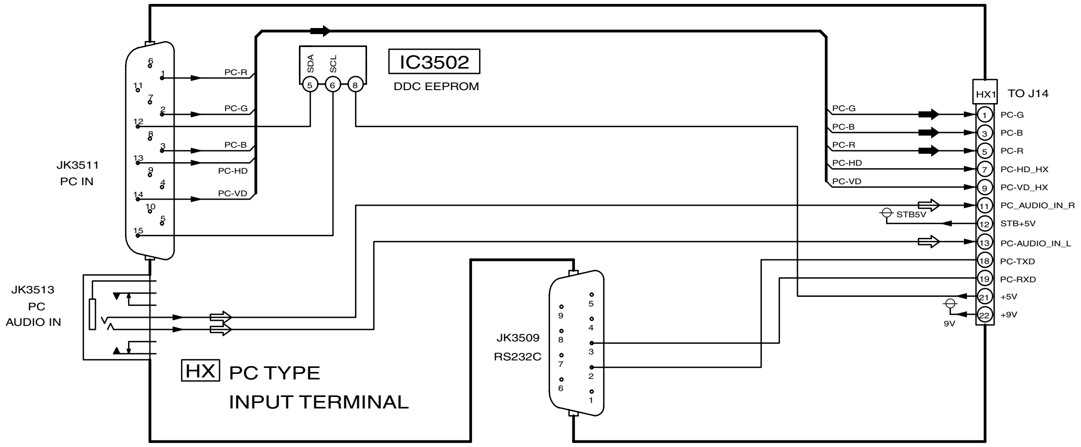

IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
IC3003
C0ABGB000001
AMP
IC3002
C0ABGB000001
AMP
IC3001
C0JBAR000111
SWITCH
JK3001
K1CB106B0027
S-VIDEO IN
JK3002
K1QBB2AB0005
VIDEO IN/OUT
JK3004
K2HA204B0097
AUDIO IN
Q3001
Q3002
Q3003
Q3004
Q3005
Q3006
Q3007
Q3023
Q3051
Q3052
Q3101
Q3102
Q3104
IC3103
C1AB00001826
Global_tvsiginal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
AD Macro
DA Macro
XTAL Macro
For BurstLock PLL Macro
For Mid_CLK PLL Macro
For FBP PLL Macro
IC3201
C3HBKZ000002
MEMORY 5M_FIFO
IC3301
C0CBABB00029
AVR 3.3V
IC3105
C0JBAZ001834
5V=>3.3V
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

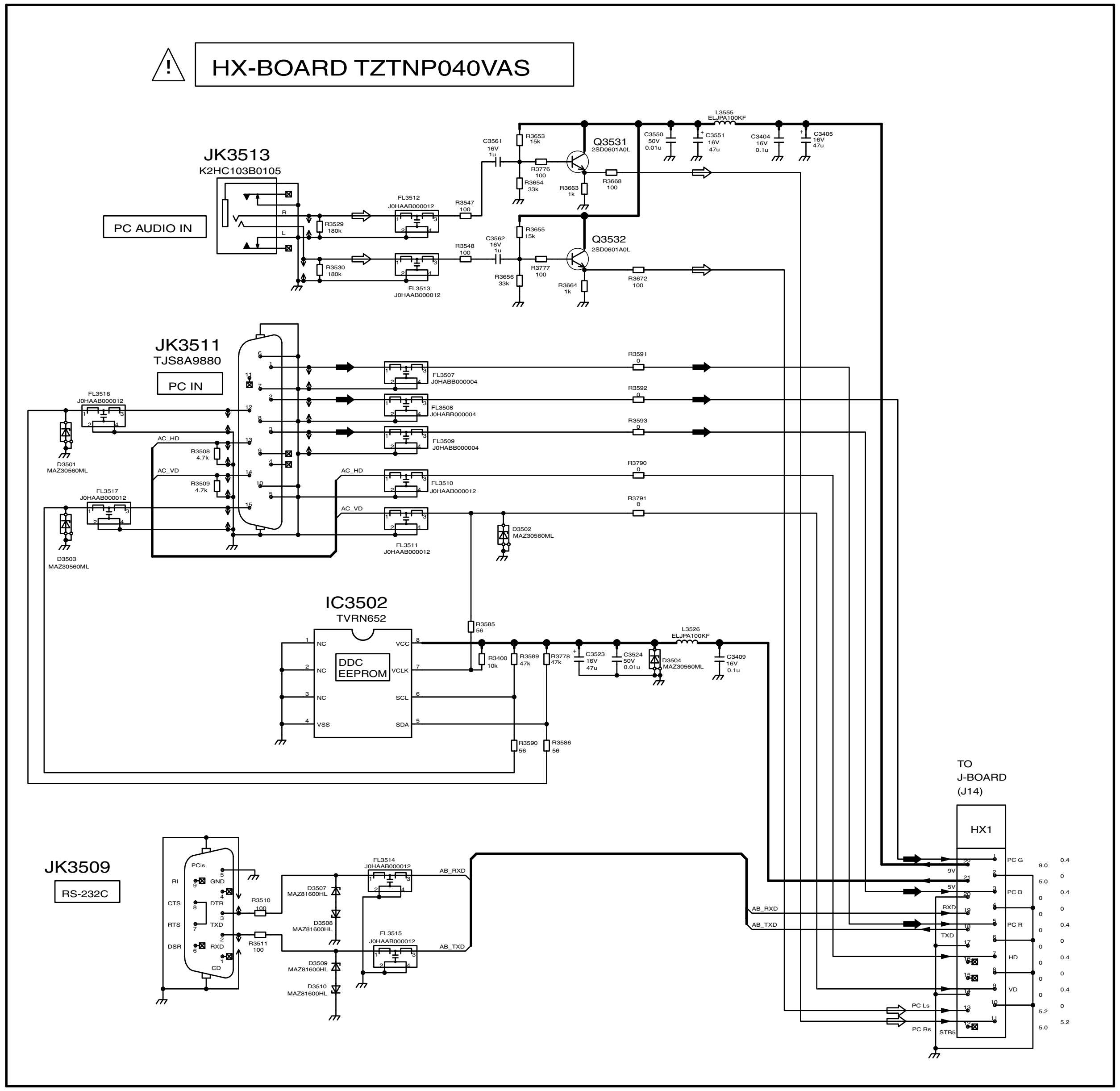
TH-65PHD8 SERIES
HB-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
HB-Board (1 of 2) Schematic Diagram

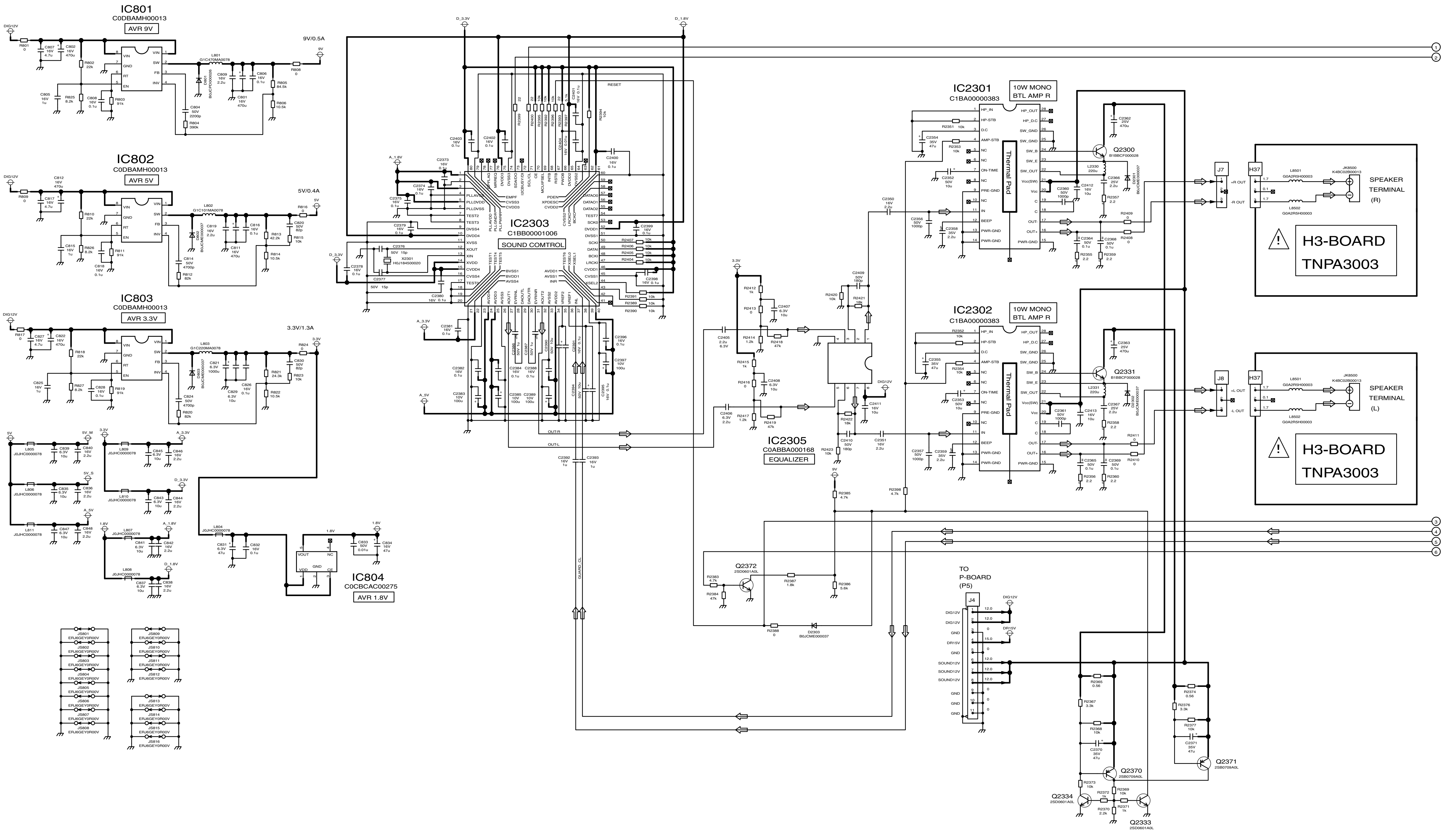
⚠ HB-BOARD TXNHB10QXS (2/2)


IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3303
AN80L25RMSTX
AVR 2.5V
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3304
C0JBBZ000285
5V=>3.3V
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
TO
J-BOARD
SLOT
H1
FOR
FACTORY
USE
H0
STB5V
SRQ
GND
SCL
SDA
GND
TS3100
TS3101
TS3102
GND
VP
HP
AM_VP
AM_HP
R3251
100
R3255
22
R3254
22
C3265
4V
220u
C3266
16V
0.1u
3.3V
AE_V_Y
AL_S2_DET
AM_HS
AM_VS
AE_R
AE_L
SCL2
SDA2
SRQ
9V
5V
3.3V
AI_TX3+
AI_TX3-
AJ_TXC+
AJ_TXC-
AH_TX2+
AH_TX2-
AK_TX1+
AK_TX1-
AD_TX0+
AD_TX0-
C
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
C3261
4V
220u
C3264
16V
0.1u
CLKI_M
R3252
L3305
ELKE103FA
L3306
ELKE103FA
L3307
ELKE103FA
L3308
ELKE103FA
C3318
C3319
C3320
C3321
C3322
220u
4V
C3323
220u
4V
C3324
100u
6.3V
C3325
47u
16V
C3327
C3328
C3329
C3330
C3301
10V
1u
AG_SDA2
AG_SCL2
R3313
33k
R3319
33k
2.5V
GND
V_adj
OUT
ON/OFF
IN
R3301
1.5k
R3300
1.5k
C3308
220u
4V
C3311
0.1u
16V
PLL2.5V
OUT
NC
GND
ON/OFF
R3305
0
C3309
1u
10V
C3313
1u
10V
R3302
4.7k
A0
A1
A2
P0
P1
P2
P3
GND
VCC
SDA 1
SCL 1
VDAC
S_DET P7
P6
P5
P4
C3316
1u
10V
R3314
10k
R3315
10k
R3303
22
R3304
22
AL_S_DET
AL_S_SEL
VCC
SCL1
SDA1
EN
NC
SCL0
SDA0
GND
C3317
10V
1u
R3308
10k
R3309
10k
R3337
22
R3338
22
R3307
0
A0
A1
A2
GND
VCC
WP
SCL
SDA
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬


IC3502
DDC EEPROM
SDA
SCL
JK3511
PC IN
PC-R
PC-G
PC-B
PC-HD
PC-VD
JK3513
PC
AUDIO IN
JK3509
RS232C
HX1
TO J14
PC-G
PC-B
PC-R
PC-HD_HX
PC-VD_HX
PC_AUDIO_IN_R
STB+5V
PC-AUDIO_IN_L
PC-TXD
PC-RXD
+5V
+9V
STB5V
9V
HX PC TYPE
INPUT TERMINAL

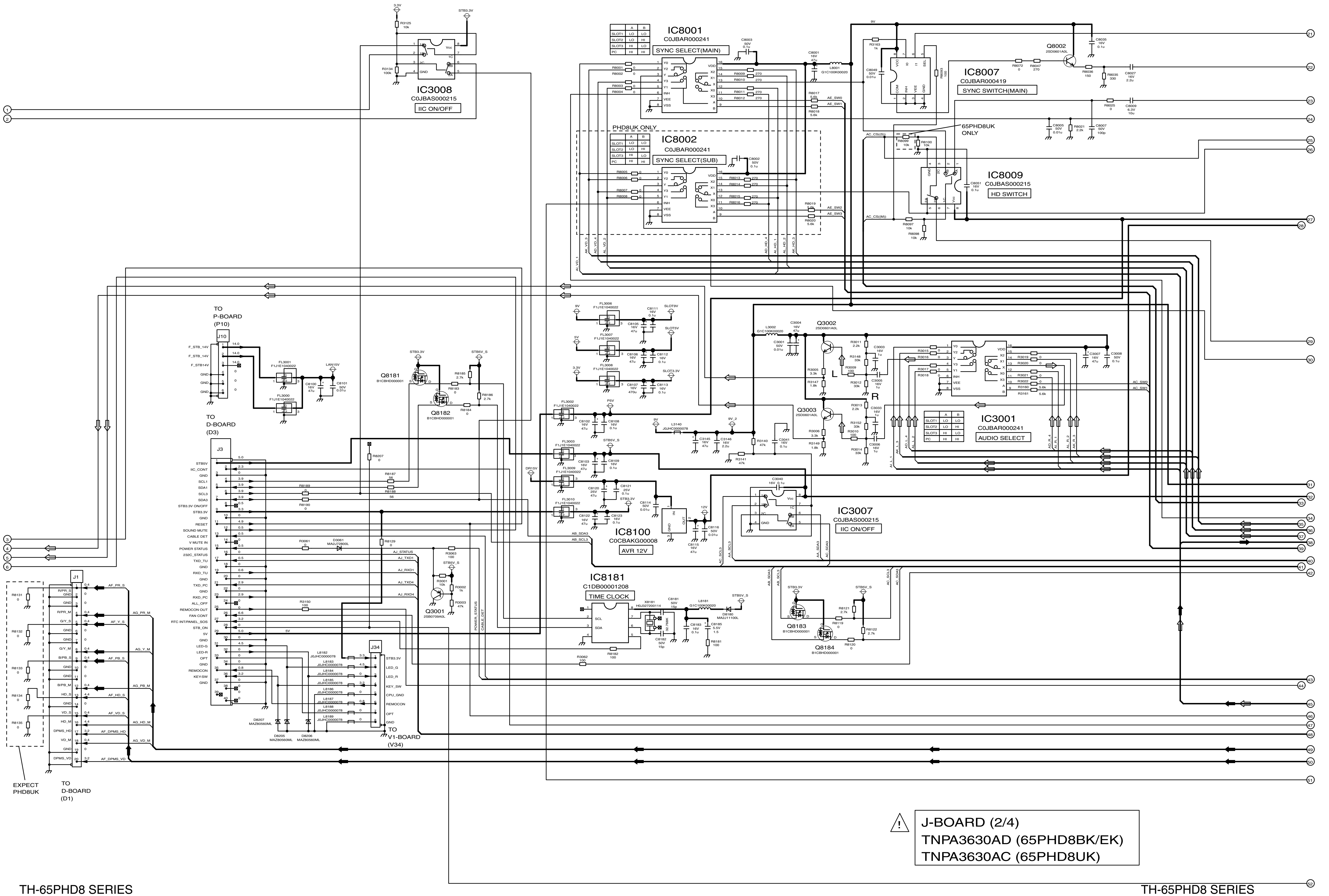

HX-BOARD TZTNP040VAS
JK3513
K2HC103B0105
PC AUDIO IN
Q3531
2SD0601A0L
Q3532
2SD0601A0L
L3555
ELJPA100KF
FL3512
J0HAAB000012
FL3513
J0HAAB000012
JK3511
TJS8A9880
PC IN
FL3507
FL3508
FL3509
FL3510
FL3511
FL3516
FL3517
AC_HD
AC_VD
D3501
MAZ30560ML
D3502
MAZ30560ML
D3503
MAZ30560ML
IC3502
TVRN652
DDC
EEPROM
NC
VSS
VCC
VCLK
SCL
SDA
L3526
ELJPA100KF
D3504
MAZ30560ML
JK3509
RS-232C
FL3514
J0HAAB000012
FL3515
J0HAAB000012
AB_RXD
AB_TXD
D3507
D3508
D3509
D3510
MAZ81600HL
R3510
100
R3511
100
TO
J-BOARD
(J14)
HX1
PC G
PC B
PC R
HD
VD
PC Ls
PC Rs
STB5
RXD
TXD
9V
5V

⚠ J-BOARD (1/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)


IC801
C0DBAMH00013
AVR 9V
9V/0.5A
IC802
C0DBAMH00013
AVR 5V
5V/0.4A
IC803
C0DBAMH00013
AVR 3.3V
3.3V/1.3A
IC804
C0CBCAC00275
AVR 1.8V
IC2303
C1BB00001006
SOUND COMTROL
IC2301
C1BA00000383
10W MONO
BTL AMP R
IC2302
C1BA00000383
10W MONO
BTL AMP R
Thermal Pad
IC2305
C0ABBA000168
EQUALIZER
Q2300
B1BBCF000028
Q2331
B1BBCF000028
Q2372
2SD0601A0L
Q2370
2SB0709A0L
Q2371
2SB0709A0L
Q2334
2SD0601A0L
Q2333
2SD0601A0L
J7
J8
H37
SPEAKER
TERMINAL
(R)
(L)
⚠ H3-BOARD
TNPA3003
TO
P-BOARD
(P5)
J4
OUT-R
OUT-L
RESET
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
J-Board (1 of 4) and H3-Board Schematic Diagram

TH-65PHD8 SERIES
J-Board (1 of 4) and H3-Board Schematic Diagram

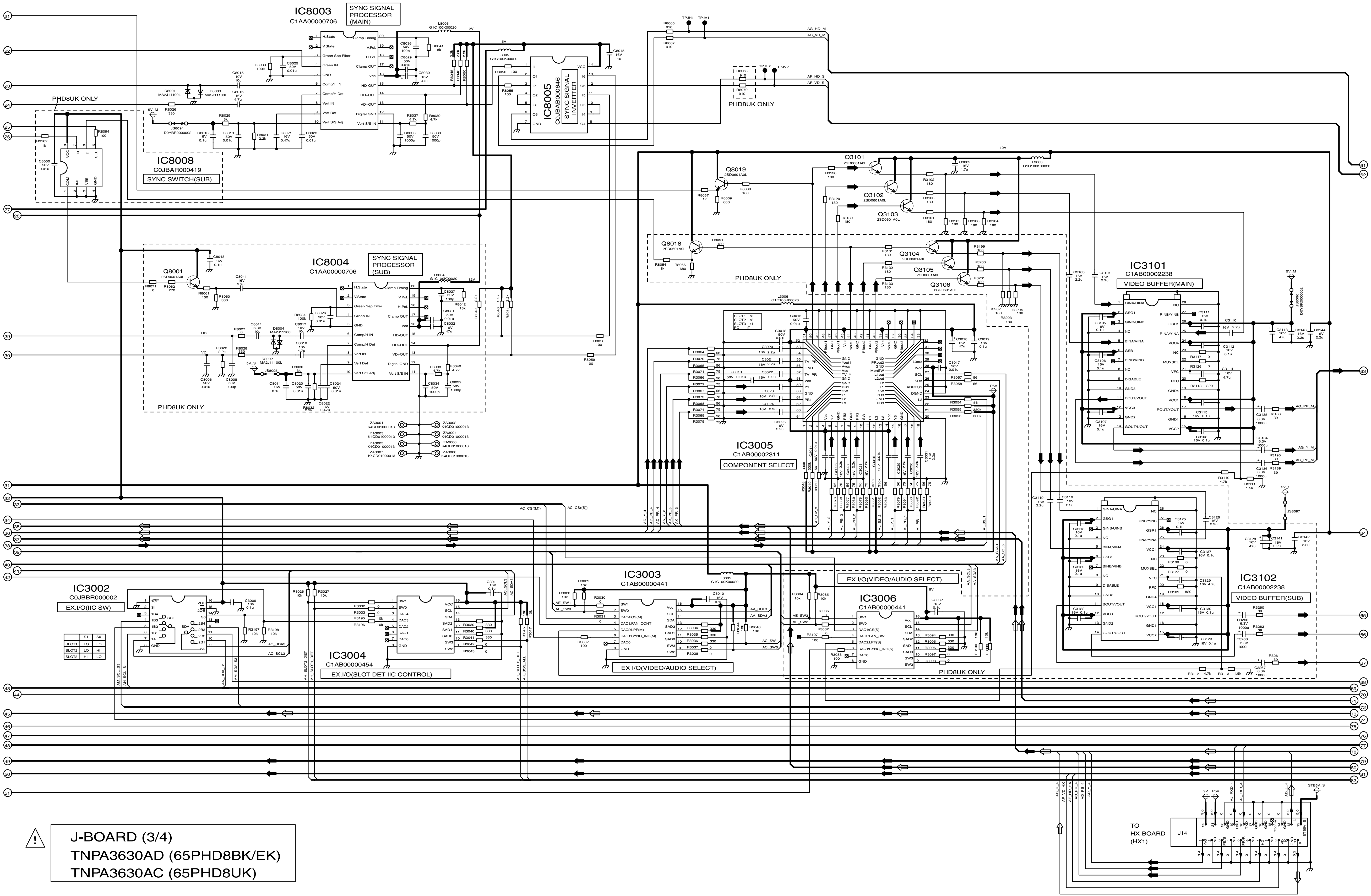

IC3008
C0JBAS000215
IIC ON/OFF
IC8001
C0JBAR000241
SYNC SELECT(MAIN)
IC8002
C0JBAR000241
SYNC SELECT(SUB)
PHD8UK ONLY
IC8007
C0JBAR000419
SYNC SWITCH(MAIN)
Q8002
2SD0601A0L
65PHD8UK ONLY
IC8009
C0JBAS000215
HD SWITCH
TO P-BOARD (P10)
J10
F_STB_14V
F_STB14V
GND
FL3001
FL3000
Q8181
B1CBHD000001
Q8182
B1CBHD000001
TO D-BOARD (D3)
J3
STB6V
IIC_CONT
SCL1
SDA1
SCL3
SDA3
STB3.3V ON/OFF
STB3.3V
RESET
SOUND MUTE
CABLE DET
V MUTE IN
POWER STATUS
232C_STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
ALL_OFF
REMOCON OUT
FAN CONT
RTC INT/PANEL_SOS
STB_ON
LED-G
LED-R
OPT
REMOCON
KEY-SW
D3061
MA2J72800L
Q3001
2SB0709A0L
J34
LED_G
LED_R
KEY_SW
CPU_GND
TO V1-BOARD (V34)
D8207
MAZ80560ML
D8205
MAZ80560ML
D8206
MAZ80560ML
J1
R/PR_S
R/PR_M
G/Y_S
G/Y_M
B/PB_S
B/PB_M
HD_S
HD_M
VD_S
VD_M
DPMS_HD
DPMS_VD
EXPECT PHD8UK
TO D-BOARD (D1)
FL3006
FL3007
FL3008
FL3002
FL3003
FL3009
FL3010
SLOT9V
SLOT5V
SLOT3.3V
P5V
STB5V_S
DR15V
IC8100
C0CBAKG00008
AVR 12V
IC8181
C1DB00001208
TIME CLOCK
X8181
L8181
D8180
MA2J11100L
Q3002
2SD0601A0L
Q3003
2SD0601A0L
L
R
IC3001
C0JBAR000241
AUDIO SELECT
IC3007
C0JBAS000215
IIC ON/OFF
Q8183
B1CBHD000001
Q8184
B1CBHD000001
10
11
12
13
14
15
16
17
18

	A	B
SLOT1	LO	LO
SLOT2	LO	HI
SLOT3	HI	LO
PC	HI	HI

⚠ J-BOARD (2/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)

TH-65PHD8 SERIES
J-Board (2 of 4) Schematic Diagram

TH-65PHD8 SERIES
J-Board (2 of 4) Schematic Diagram

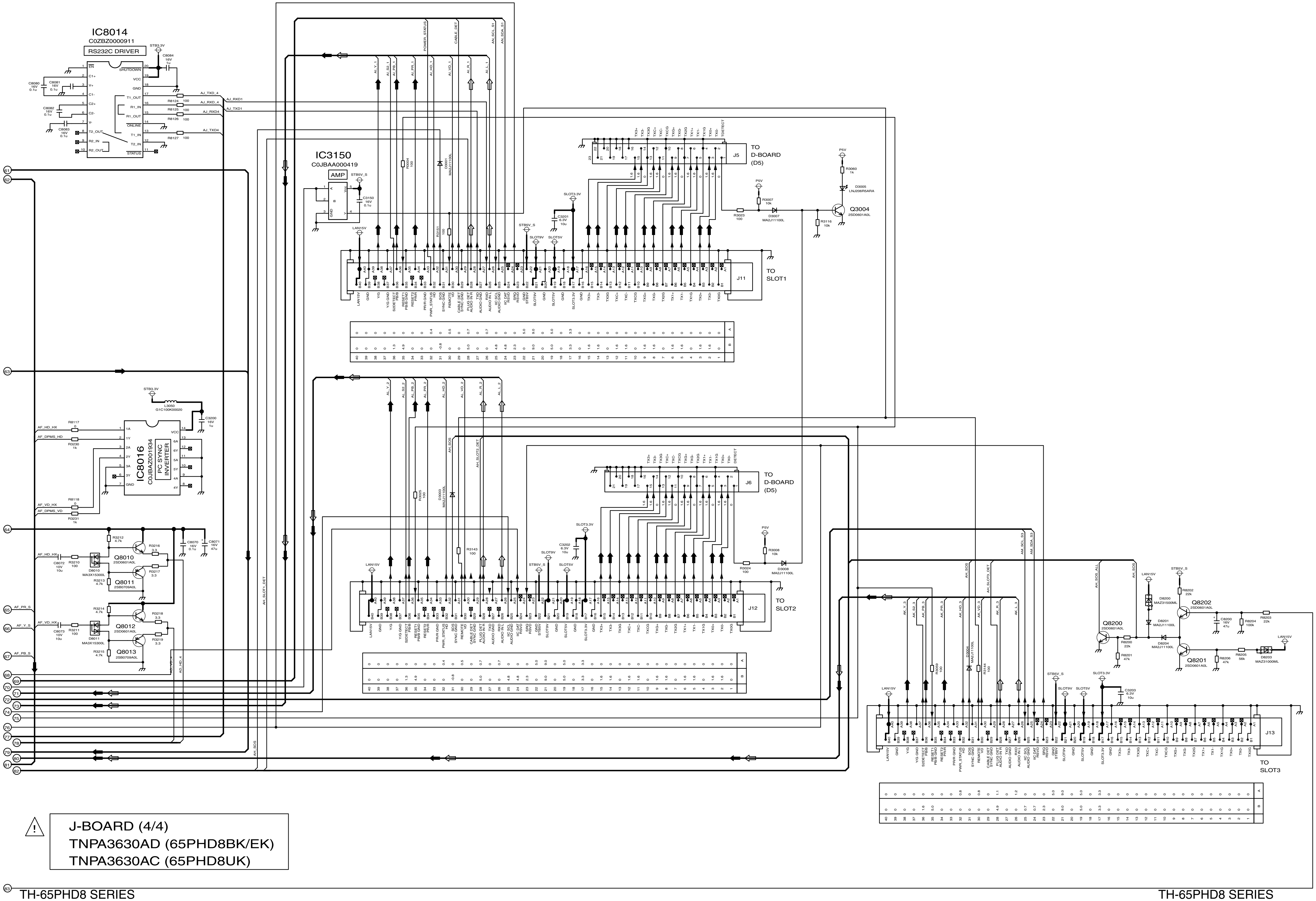

IC8003
C1AA00000706
SYNC SIGNAL PROCESSOR (MAIN)
IC8005
C0JBAB000646
SYNC SIGNAL INVERTER
IC8008
C0JBAR000419
SYNC SWITCH(SUB)
PHD8UK ONLY
IC8004
C1AA00000706
SYNC SIGNAL PROCESSOR (SUB)
Q8001
Q8018
Q8019
Q3101
Q3102
Q3103
Q3104
Q3105
Q3106
IC3005
C1AB00002311
COMPONENT SELECT
IC3101
C1AB00002238
VIDEO BUFFER(MAIN)
IC3102
C1AB00002238
VIDEO BUFFER(SUB)
IC3002
C0JBBR000002
EX.I/O(IIC SW)
IC3004
C1AB00000454
EX.I/O(SLOT DET IIC CONTROL)
IC3003
C1AB00000441
EX I/O(VIDEO/AUDIO SELECT)
IC3006
C1AB00000441
EX I/O(VIDEO/AUDIO SELECT)
TO HX-BOARD (HX1)
J14
AG_HD_M
AG_VD_M
AF_HD_S
AF_VD_S
AG_PR_M
AG_Y_M
AG_PB_M
12V
5V
9V
P5V
5V_M
5V_S
STB5V_S

⚠ J-BOARD (3/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)

TH-65PHD8 SERIES
J-Board (3 of 4) Schematic Diagram

TH-65PHD8 SERIES
J-Board (3 of 4) Schematic Diagram

19 20 21 22 23 24 25 26 27



IC8014
C0ZBZ0000911
RS232C DRIVER
STB3.3V
SHUTDOWN
VCC
GND
T1_OUT
R1_IN
R1_OUT
ONLINE
T1_IN
T2_IN
STATUS
EN
C1+
V+
C1-
C2+
C2-
V-
T2_OUT
R2_IN
R2_OUT
AJ_TXD_4
AJ_RXD1
AJ_RXD_4
AJ_TXD1
AJ_RXD4
AJ_TXD4
IC3150
C0JBAA000419
AMP
STB5V_S
IC8016
C0JBAZ001934
PC SYNC INVERTER
L3050
G1C100K00020
AF_HD_HX
AF_DPMS_HD
AF_VD_HX
AF_DPMS_VD
AF_PR_S
AF_Y_S
AF_PB_S
Q8010
2SD0601A0L
Q8011
2SB0709A0L
Q8012
2SD0601A0L
Q8013
2SB0709A0L
D8010
MA3X15300L
D8011
MA3X15300L
POWER_STATUS
CABLE_DET
AN_SCL_S1
AN_SDA_S1
AI_Y_1
AI_S2_1
AI_PB_1
AI_PR_1
AI_HD_1
AI_VD_1
AI_R_1
AI_L_1
TO D-BOARD (D5)
J5
J6
TO SLOT1
J11
TO SLOT2
J12
TO SLOT3
J13
Q3004
2SD0601A0L
D3005
LNJ206R5ARA
D3007
MA2J11100L
D3008
MA2J11100L
AI_Y_2
AI_S2_2
AI_PB_2
AI_PR_2
AI_HD_2
AI_VD_2
AI_R_2
AI_L_2
AH_SOS
AH_SLOT2_DET
AH_SLOT1_DET
AK_Y_3
AK_S2_3
AK_PB_3
AK_PR_3
AK_HD_3
AK_VD_3
AK_R_3
AK_L_3
AH_SLOT3_DET
AM_SCL_S3
AM_SDA_S3
AH_SOS_ALL
Q8200
2SD0601A0L
Q8201
2SD0601A0L
Q8202
2SD0601A0L
D8200
MAZ31500ML
D8201
MA2J11100L
D8203
MAZ31000ML
D8204
MA2J11100L
LAN15V
SLOT9V
SLOT5V
SLOT3.3V
P5V
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83

⚠

J-BOARD (4/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)

Important Safety Notice

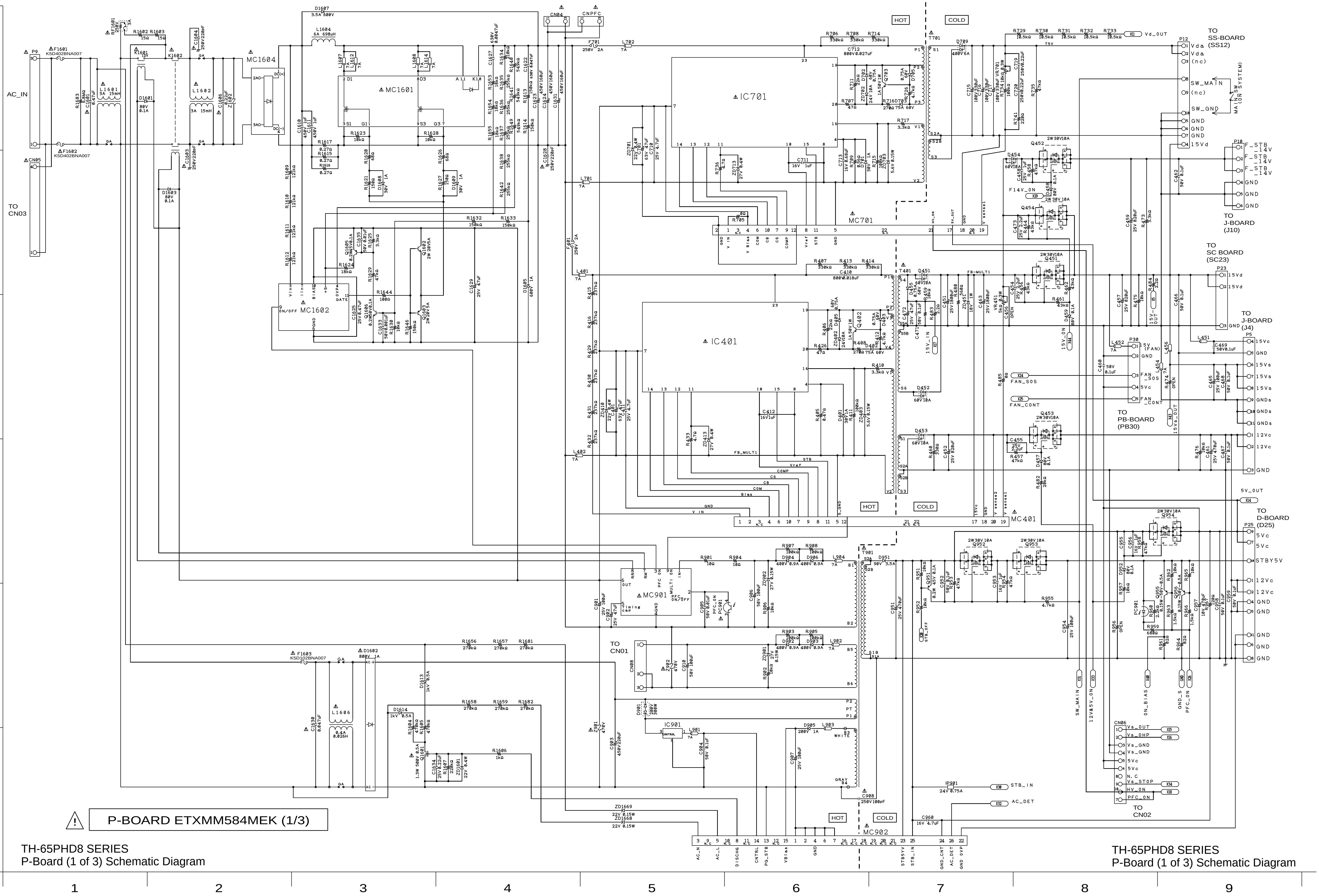
Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is μF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source .... AC120V, 50/60Hz (UK)
   AC220-240V, 50/60Hz (BK/EK)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

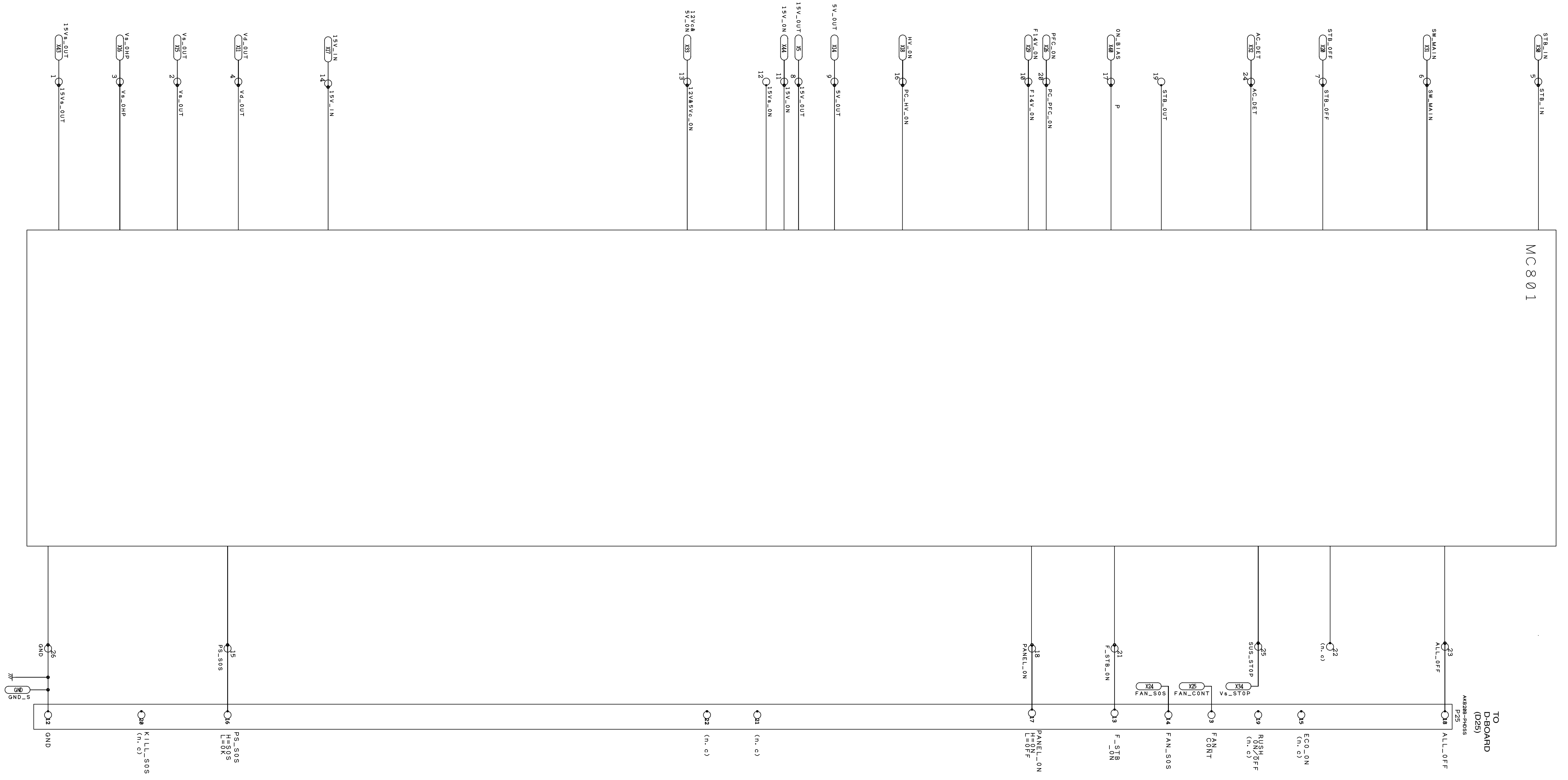
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
    a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
    b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
    c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
    Connect the earth of instruments to the earth connection of the circuit being measured.
    d. Make sure to disconnect the power plug before removing the chassis.


AC_IN
P9
TO CN03
CN05
F1601 K5D402BNA007
F1602 K5D402BNA007
F1603 K5D102BNA007
RF1601
L1601 3A 15mH
L1602 3A 15mH
L1606 0.4A 0.026H
K1601
K1602
D1601 80V 0.1A
D1603 80V 0.1A
D1602 800V 1A
D1607 3.5A 600V
L1604 6A 698uH
MC1604
MC1601
MC1602
ON/OFF
GATE
D1605 600V 1A
CN04
CNPFC
F701 250V 2A
L702 7A
L701 7A
F401 250V 2A
L401 7A
L402 7A
IC701
MC701
IC401
MC401
MC901
IC901
MC902
T701
T401
T901
D709 400V6A
D451 60V10A
D452 60V10A
D453 60V10A
D951 90V 3.5A
Q452 2W30V10A
Q454 2W30V10A
Q451 2W30V10A
Q453 2W30V10A
Q952 2W30V10A
Q953 2W30V10A
Q954 2W30V10A
HOT
COLD
FB_MULT1
Vref
STB
COMP
CS
CB
COM
Bias
GND
V IN
Vd_OUT
F14V_ON
FAN_SOS
FAN_CONT
15V_IN
15V_ON
15Va_OUT
5V_OUT
STB_OFF
STB_IN
AC_DET
SW_MAIN
12V&5V_ON
ON_BIAS
GND_S
PFC_ON
IP901 24V 0.75A
ZD1669 22V 0.15W
ZD1668 22V 0.15W
TO SS-BOARD (SS12)
P12
Vda
(nc)
SW_MAIN
SW_GND
MAIN (ON SYSTEM)
GND
15Vd
P10
F_STB _14V
TO J-BOARD (J10)
TO SC BOARD (SC23)
P23
15Vd
TO J-BOARD (J4)
P5
15Vc
15Vs
GNDs
12Vc
TO PB-BOARD (PB30)
P30
15V (FAN)
FAN_SOS
5Vc
FAN_CONT
TO D-BOARD (D25)
P25
5Vc
STBY5V
12Vc
CN06
Vs_OUT
Vs_0HP
Vs_GND
5Vc
N.C
Vs_STOP
HV_ON
PFC_ON
TO CN02
TO CN01
CN08
WHITE
GRAY
AC_N
AC_L
DISCHG
CNTRL
PG_STB
VBias
STB5VV
STB_IN
GND_CNT
AC_DET
GND OVP
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

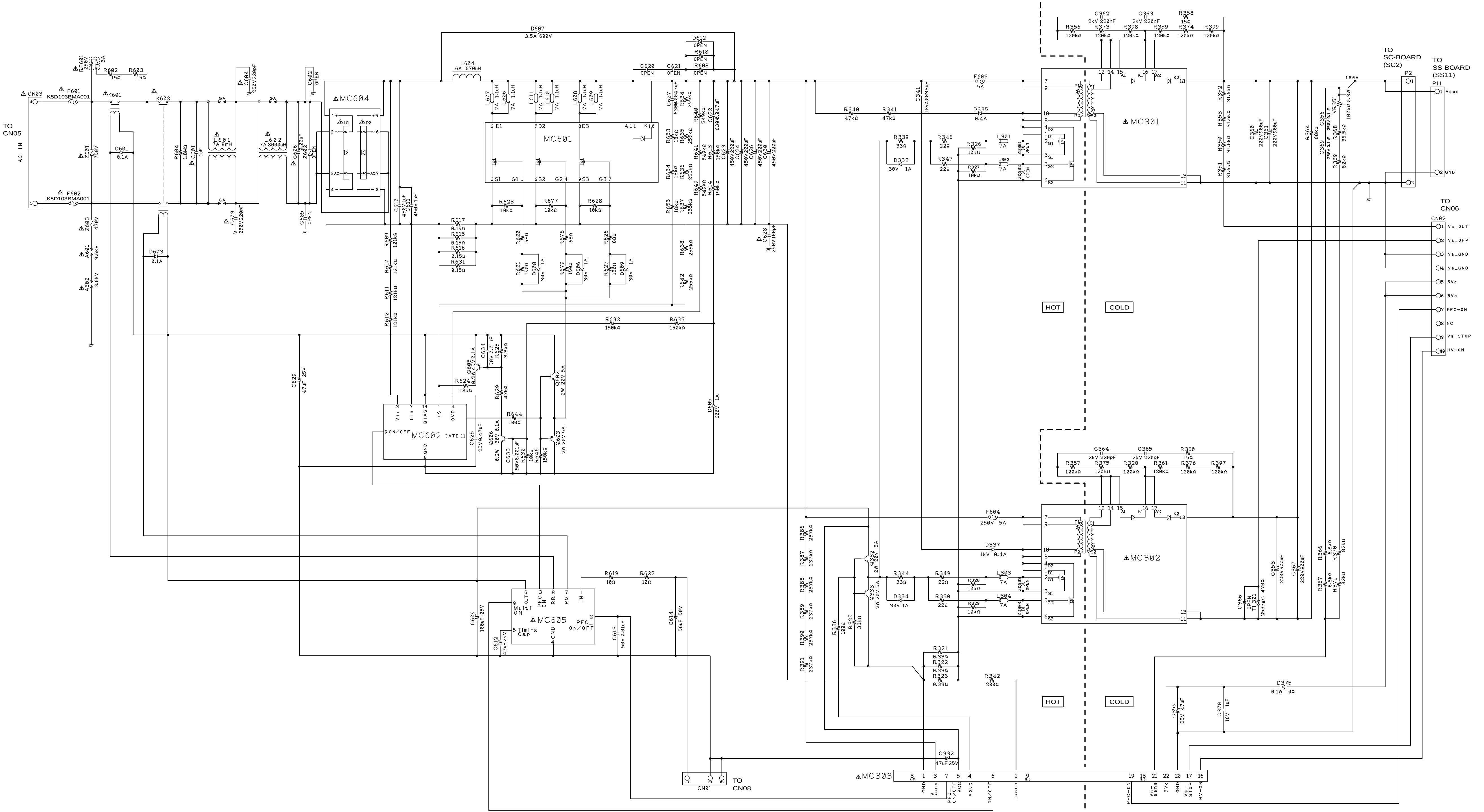
⚠ P-BOARD ETXMM584MEK (1/3)

TH-65PHD8 SERIES
P-Board (1 of 3) Schematic Diagram

TH-65PHD8 SERIES
P-Board (1 of 3) Schematic Diagram


MC801
X43 15Vs_OUT 1 15Vs_OUT
X16 Vs_OHP 3 Vs_OHP
X15 Vs_OUT 2 Vs_OUT
X11 Vd_OUT 4 Vd_OUT
X17 15V_IN 14 15V_IN
X33 12Vc& 5V_ON 13 12V&5Vc_ON
12 15Vs_ON
X44 15V_ON 11 15V_ON
X5 15V_OUT 8 15V_OUT
X14 5V_OUT 9 5V_OUT
X18 HV_ON 16 PC_HV_ON
X29 F14V_ON 10 F14V_ON
X26 PFC_ON 20 PC_PFC_ON
X40 ON_BIAS 17 P
19 STB_OUT
X32 AC_DET 24 AC_DET
X20 STB_OFF 7 STB_OFF
X31 SW_MAIN 6 SW_MAIN
X30 STB_IN 5 STB_IN
GND 26
PS_SOS 15
PANEL_ON 18
F_STB_ON 21
SUS_STOP 25
(n. c) 22
ALL_OFF 23
GND GND_S
X24 FAN_SOS
X25 FAN_CONT
X34 Vs_STOP
12 GND
20 KILL_SOS (n. c)
16 PS_SOS H=SOS L=OK
22 (n. c)
21 (n. c)
17 PANEL_ON H=ON L=OFF
13 F_STB _ON
14 FAN_SOS
3 FAN CONT
19 RUSH ON/OFF (n. c)
15 ECO_ON (n. c)
18 ALL_OFF
AKB20B-PHDSS
P25
TO
D-BOARD
(D25)

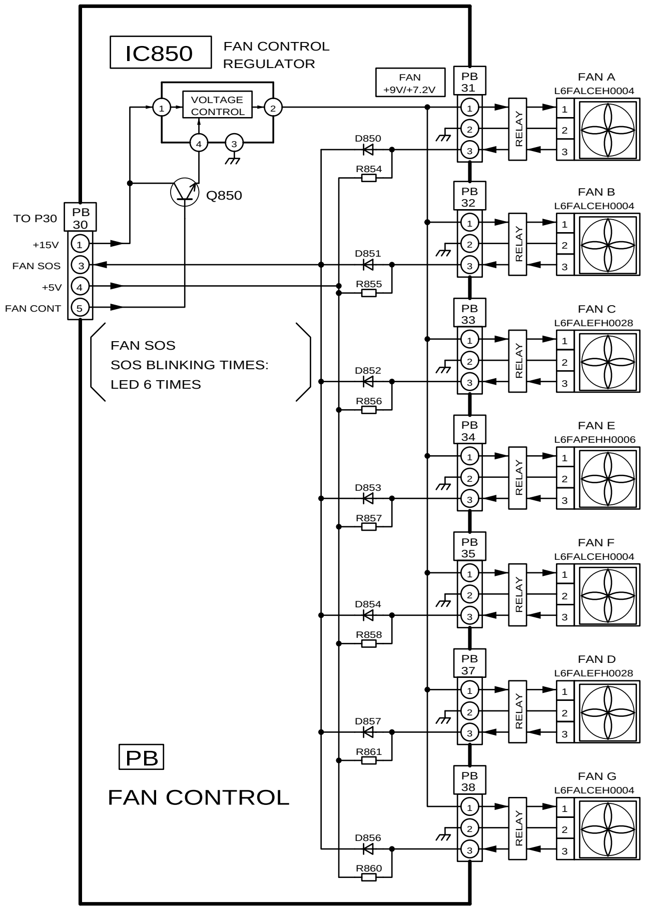
⚠ P-BOARD ETXMM584MEK (2/3)

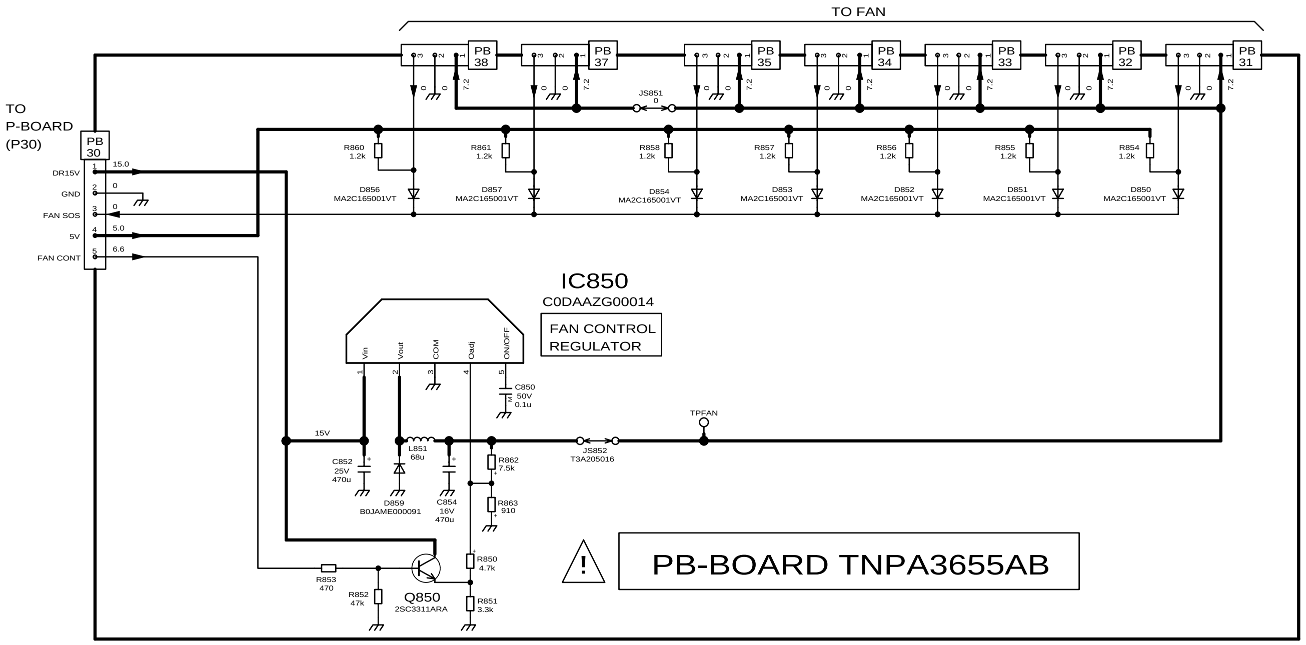

TO CN05
AC_IN
CN03
F601 K5D103BMA001
F602 K5D103BMA001
K601
K602
L601 7A 8mH
L602 7A 8000uH
MC604
MC601
MC602
MC605
L604 6A 670uH
D607 3.5A 600V
D612 OPEN
F603 5A
F604 250V 5A
MC301
MC302
MC303
HOT
COLD
TO SC-BOARD (SC2)
P2
TO SS-BOARD (SS11)
P11
Vsus
GND
TO CN06
CN02
Vs_OUT
Vs_OHP
Vs_GND
Vs_GND
5Vc
5Vc
PFC-ON
NC
Vs-STOP
HV-ON
CN01
TO CN08
180V

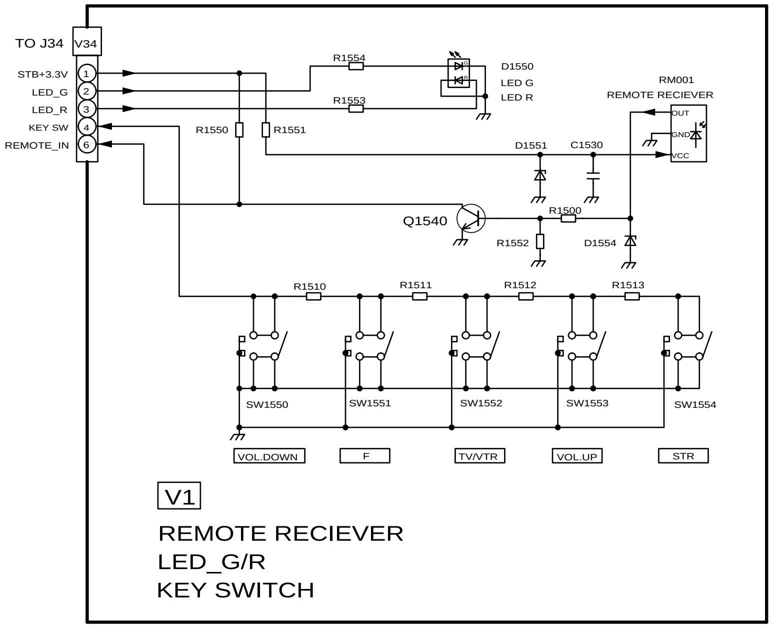
P-BOARD ETXMM584MEK (3/3)

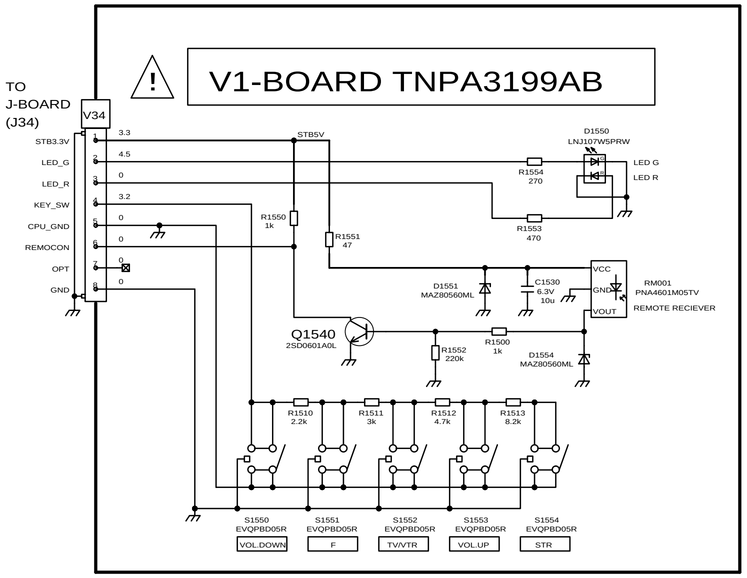
TH-65PHD8 SERIES
P-Board (3 of 3) Schematic Diagram

TH-65PHD8 SERIES
P-Board (3 of 3) Schematic Diagram

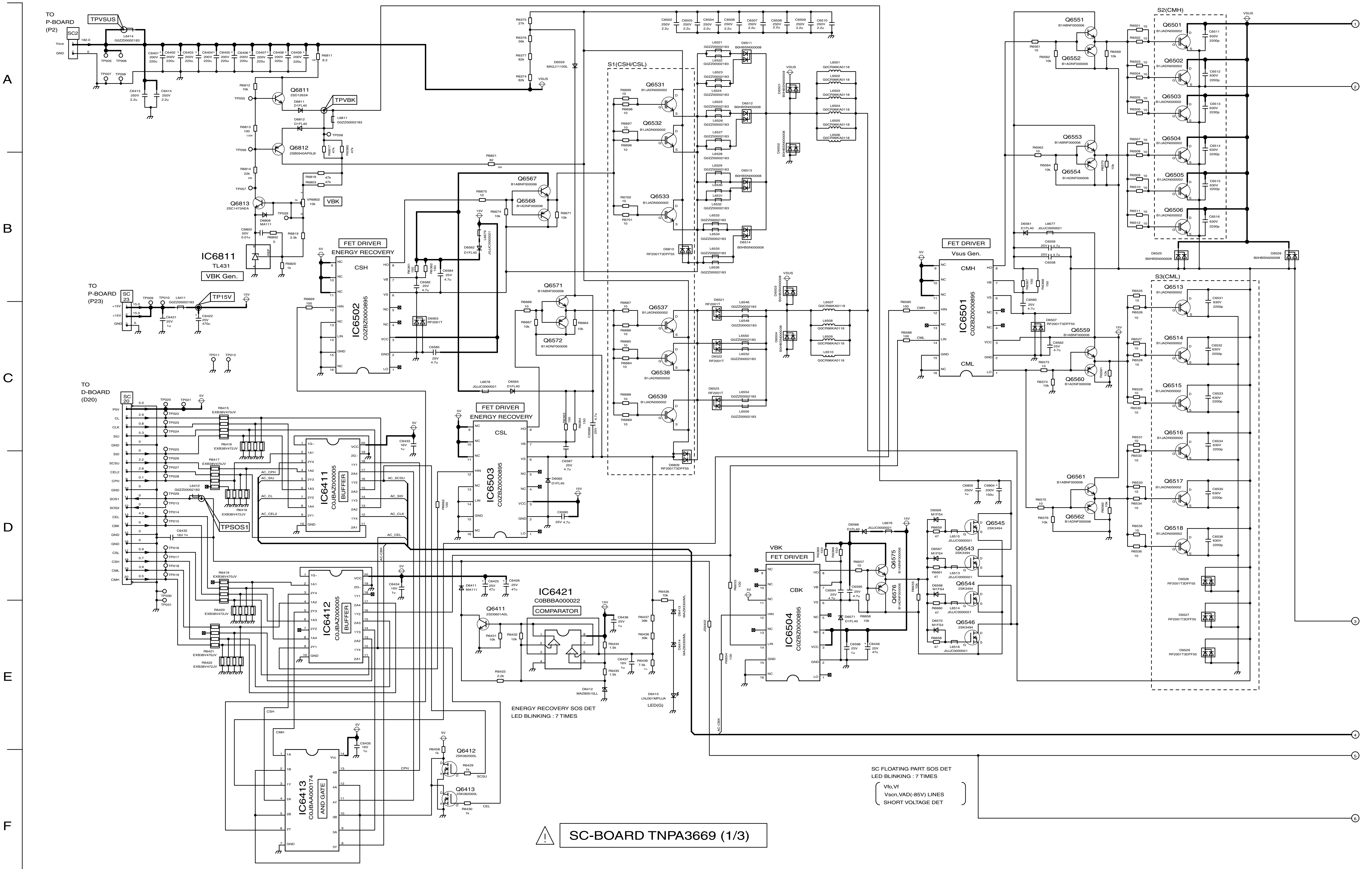

IC850
FAN CONTROL REGULATOR
VOLTAGE CONTROL
Q850
TO P30
PB 30
+15V
FAN SOS
+5V
FAN CONT
FAN +9V/+7.2V
FAN SOS
SOS BLINKING TIMES:
LED 6 TIMES
PB 31
FAN A
L6FALCEH0004
D850
R854
PB 32
FAN B
L6FALCEH0004
D851
R855
PB 33
FAN C
L6FALEFH0028
D852
R856
PB 34
FAN E
L6FAPEHH0006
D853
R857
PB 35
FAN F
L6FALCEH0004
D854
R858
PB 37
FAN D
L6FALEFH0028
D857
R861
PB 38
FAN G
L6FALCEH0004
D856
R860
RELAY
PB
FAN CONTROL


TO FAN
PB 38
PB 37
PB 35
PB 34
PB 33
PB 32
PB 31
7.2
JS851 0
TO P-BOARD (P30)
PB 30
DR15V
GND
FAN SOS
5V
FAN CONT
15.0
0
0
5.0
6.6
R860 1.2k
R861 1.2k
R858 1.2k
R857 1.2k
R856 1.2k
R855 1.2k
R854 1.2k
D856 MA2C165001VT
D857 MA2C165001VT
D854 MA2C165001VT
D853 MA2C165001VT
D852 MA2C165001VT
D851 MA2C165001VT
D850 MA2C165001VT
IC850
C0DAAZG00014
FAN CONTROL REGULATOR
Vin
Vout
COM
Oadj
ON/OFF
C850 50V 0.1u
15V
C852 25V 470u
L851 68u
D859 B0JAME000091
C854 16V 470u
R862 7.5k
R863 910
JS852 T3A205016
TPFAN
R853 470
R852 47k
Q850 2SC3311ARA
R850 4.7k
R851 3.3k
PB-BOARD TNPA3655AB


TO J34
V34
STB+3.3V
LED_G
LED_R
KEY SW
REMOTE_IN
R1554
R1553
D1550
LED G
LED R
RM001
REMOTE RECIEVER
OUT
GND
VCC
R1550
R1551
D1551
C1530
Q1540
R1500
R1552
D1554
R1510
R1511
R1512
R1513
SW1550
SW1551
SW1552
SW1553
SW1554
VOL.DOWN
F
TV/VTR
VOL.UP
STR
V1
REMOTE RECIEVER
LED_G/R
KEY SWITCH

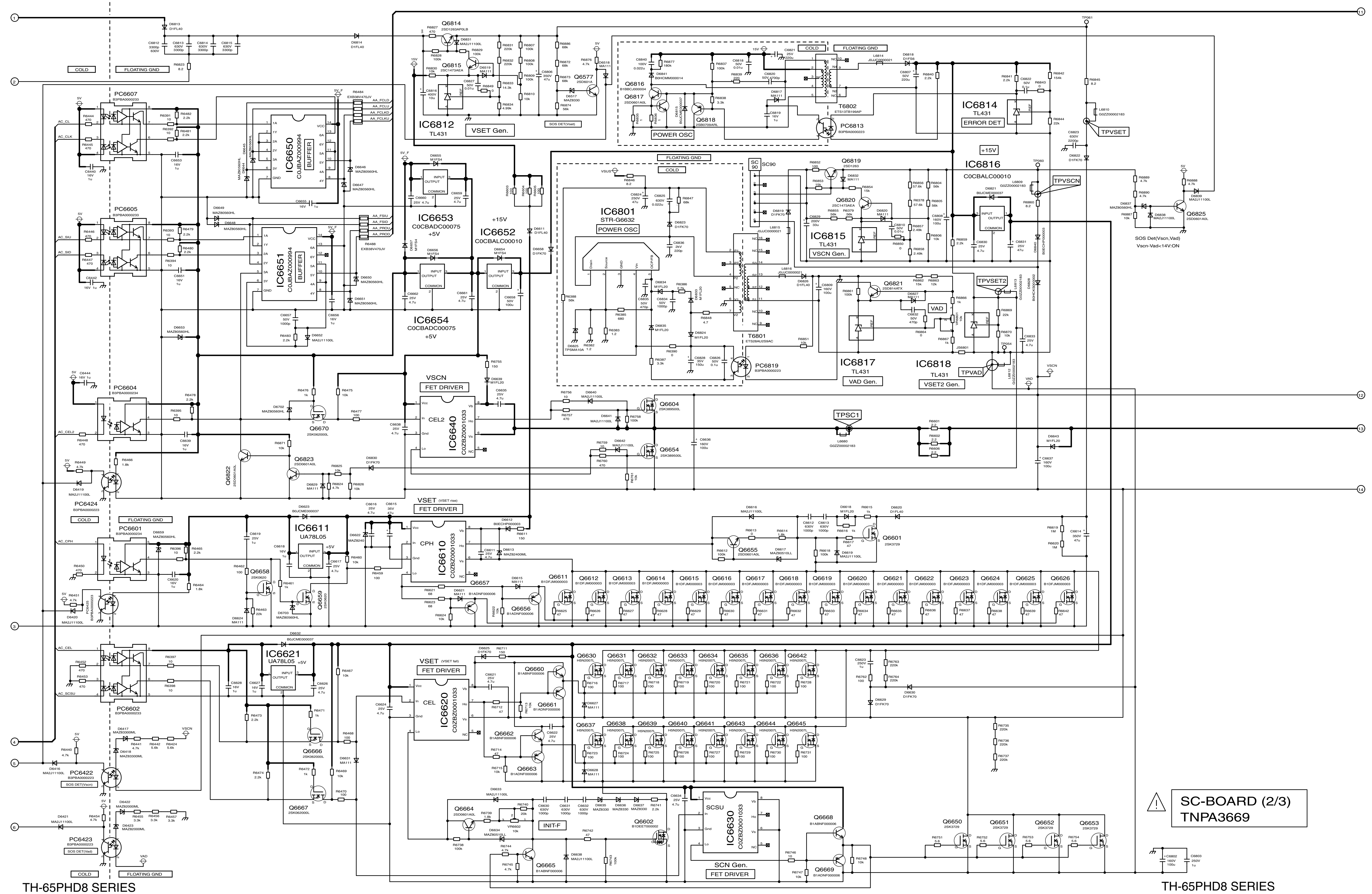

V1-BOARD TNPA3199AB
TO J-BOARD (J34)
V34
STB3.3V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
3.3
4.5
0
3.2
0
0
0
0
STB5V
D1550
LNJ107W5PRW
R1554 270
R1553 470
LED G
LED R
R1550 1k
R1551 47
D1551 MAZ80560ML
C1530 6.3V 10u
VCC
GND
VOUT
RM001
PNA4601M05TV
REMOTE RECIEVER
Q1540
2SD0601A0L
R1552 220k
R1500 1k
D1554 MAZ80560ML
R1510 2.2k
R1511 3k
R1512 4.7k
R1513 8.2k
S1550 EVQPBD05R
S1551 EVQPBD05R
S1552 EVQPBD05R
S1553 EVQPBD05R
S1554 EVQPBD05R
VOL.DOWN
F
TV/VTR
VOL.UP
STR

TH-65PHD8 SERIES
PB and V1-Board Block and Schematic Diagram


TO P-BOARD (P2)
TPVSUS
SC2
Vsus
GND
TPVBK
Q6811
Q6812
Q6813
VR6802
VBK
IC6811
TL431
VBK Gen.
TO P-BOARD (P23)
SC23
TP15V
TO D-BOARD (D20)
SC20
PSV
CL
CLK
SIU
GND
SID
SCSU
CEL2
CPH
GND
SOS1
SOS2
CEL
CBK
GND
GND
CSL
CSH
CML
CMH
TPSOS1
IC6411
C0JBAZ000005
BUFFER
IC6412
C0JBAZ000005
BUFFER
IC6413
C0JBAA000174
AND GATE
IC6421
C0BBBA000022
COMPARATOR
Q6411
Q6412
Q6413
FET DRIVER
ENERGY RECOVERY
CSH
IC6502
C0ZBZ0000895
CSL
IC6503
C0ZBZ0000895
Q6567
Q6568
Q6571
Q6572
S1(CSH/CSL)
Q6531
Q6532
Q6533
Q6537
Q6538
Q6539
S2(CMH)
Q6501
Q6502
Q6503
Q6504
Q6505
Q6506
Q6551
Q6552
Q6553
Q6554
Vsus Gen.
CMH
CML
IC6501
C0ZBZ0000895
Q6559
Q6560
S3(CML)
Q6513
Q6514
Q6515
Q6516
Q6517
Q6518
Q6561
Q6562
VBK
CBK
IC6504
C0ZBZ0000895
Q6575
Q6576
Q6543
Q6544
Q6545
Q6546
ENERGY RECOVERY SOS DET
LED BLINKING : 7 TIMES
LED(G)
SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES
Vfo,Vf
Vscn,VAD(-85V) LINES
SHORT VOLTAGE DET
SC-BOARD TNPA3669 (1/3)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
SC-Board (1 of 3) Schematic Diagram

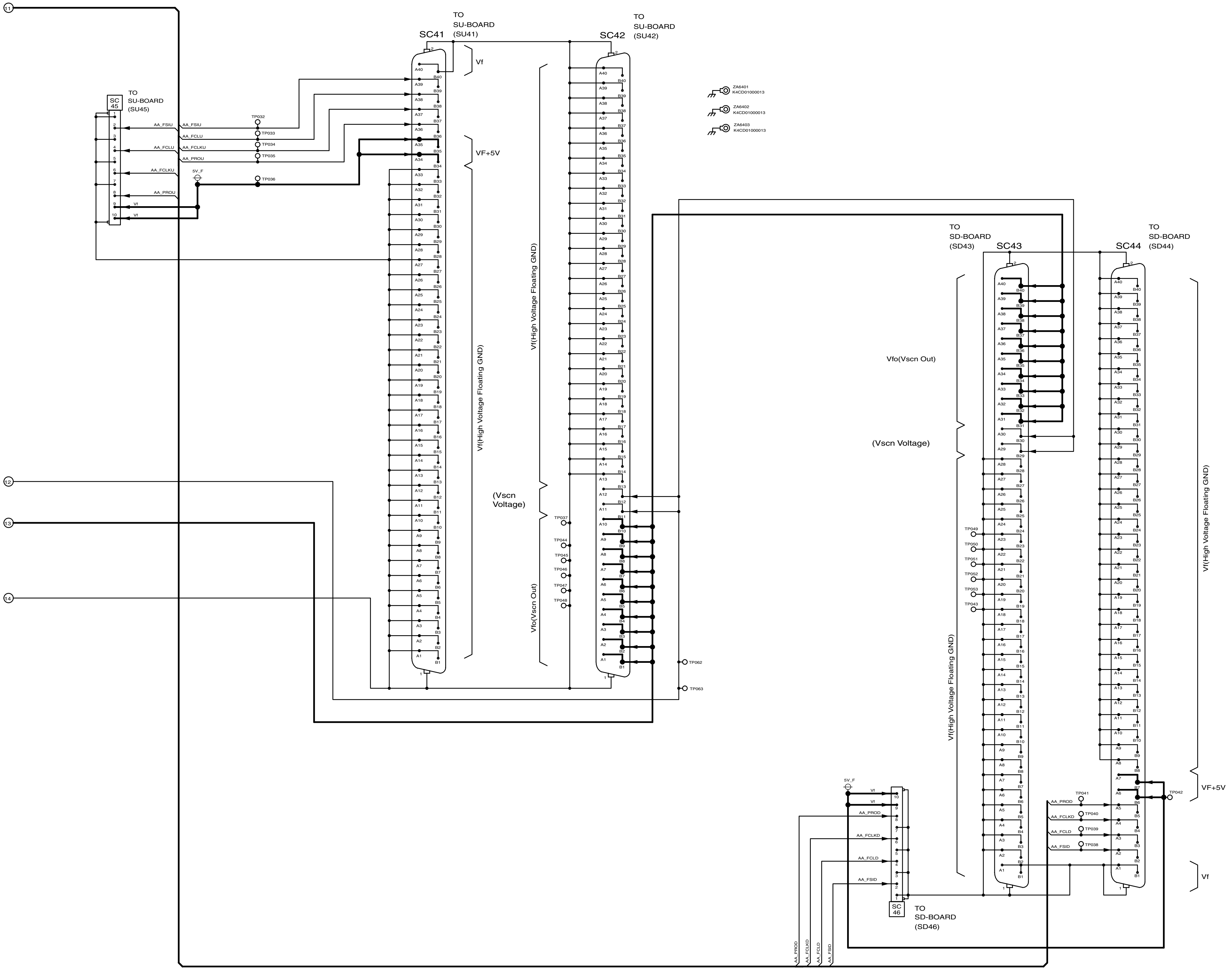
TH-65PHD8 SERIES
SC-Board (1 of 3) Schematic Diagram


COLD
FLOATING GND
PC6607
B3PBA0000233
PC6605
PC6604
B3PBA0000234
PC6424
PC6601
PC6602
PC6422
SOS DET(Vscn)
PC6423
SOS DET(Vad)
IC6650
C0JBAZ000994
BUFFER
IC6651
C0JBAZ000994
BUFFER
AC_CL
AC_CLK
AC_SIU
AC_SID
AC_CEL2
AC_CPH
AC_CEL
AC_SCSU
AA_FCLD
AA_FCLU
AA_FCLKD
AA_FCLKU
AA_FSIU
AA_FSID
AA_PROU
AA_PROD
IC6653
C0CBADC00075
+5V
IC6654
C0CBADC00075
+5V
IC6652
C0CBALC00010
+15V
IC6812
TL431
VSET Gen.
SOS DET(Vset)
Q6814
Q6815
Q6577
Q6816
Q6817
Q6818
POWER OSC
T6802
ETS13TB199AP
PC6813
IC6814
TL431
ERROR DET
TPVSET
+15V
IC6816
C0CBALC00010
TPVSCN
Q6825
SOS Det(Vscn,Vad)
Vscn-Vad<14V:ON
IC6801
STR-G6632
POWER OSC
SC90
Q6819
Q6820
IC6815
TL431
VSCN Gen.
Q6821
VAD
TPVSET2
T6801
ETS28AU259AC
PC6819
IC6817
TL431
VAD Gen.
IC6818
TL431
VSET2 Gen.
TPVAD
VSCN
FET DRIVER
CEL2
IC6640
C0ZBZ0001033
Q6670
Q6823
Q6822
Q6604
Q6654
TPSC1
VSET (VSET rise)
FET DRIVER
IC6611
UA78L05
+5V
CPH
IC6610
C0ZBZ0001033
Q6658
Q6659
Q6657
Q6656
Q6655
Q6601
Q6611
Q6612
Q6613
Q6614
Q6615
Q6616
Q6617
Q6618
Q6619
Q6620
Q6621
Q6622
Q6623
Q6624
Q6625
Q6626
IC6621
UA78L05
+5V
VSET (VSET fall)
FET DRIVER
CEL
IC6620
C0ZBZ0001033
Q6660
Q6661
Q6662
Q6663
Q6666
Q6667
Q6630
Q6631
Q6632
Q6633
Q6634
Q6635
Q6636
Q6642
Q6637
Q6638
Q6639
Q6640
Q6641
Q6643
Q6644
Q6645
Q6664
INIT-F
Q6665
Q6602
SCSU
IC6630
C0ZBZ0001033
SCN Gen.
FET DRIVER
Q6668
Q6669
Q6650
Q6651
Q6652
Q6653
SC-BOARD (2/3)
TNPA3669

TH-65PHD8 SERIES
SC-Board (2 of 3) Schematic Diagram

TH-65PHD8 SERIES
SC-Board (2 of 3) Schematic Diagram

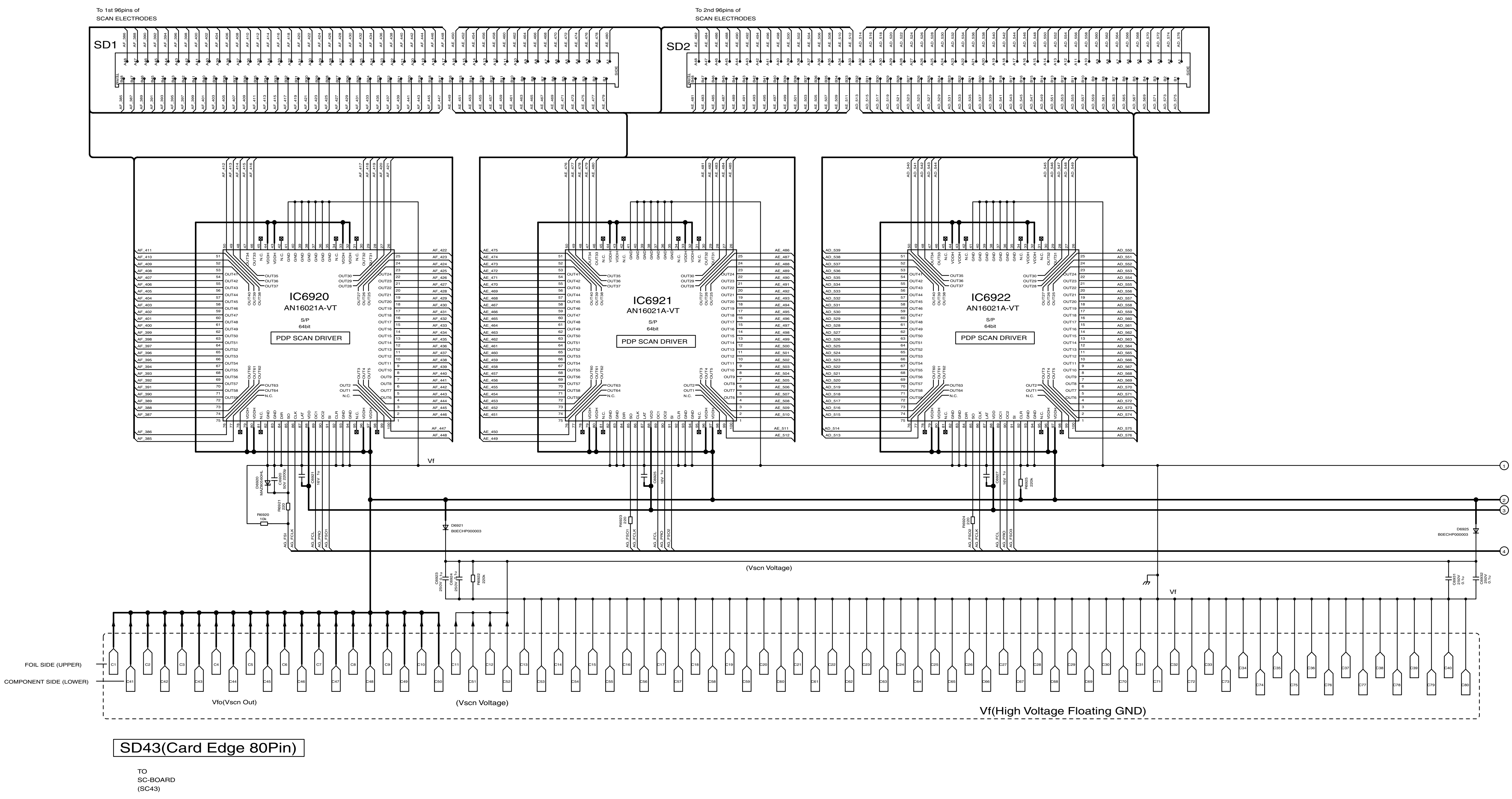
10 11 12 13 14 15 16 17 18



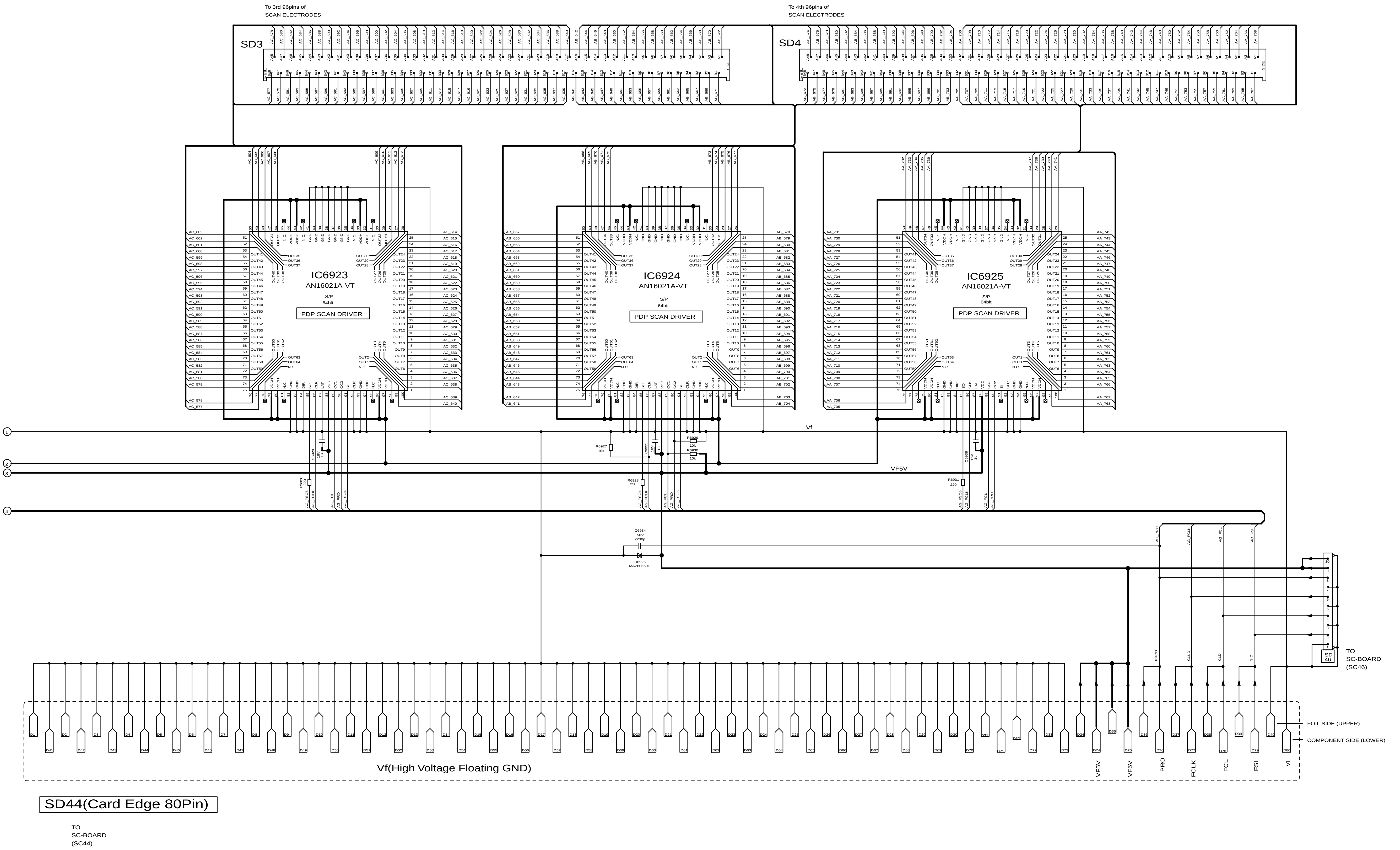
⑪
⑫
⑬
⑭
SC41
TO SU-BOARD (SU41)
SC42
TO SU-BOARD (SU42)
SC 45
TO SU-BOARD (SU45)
AA_FSIU
AA_FCLU
AA_FCLKU
AA_PROU
5V_F
Vf
TP032
TP033
TP034
TP035
TP036
VF+5V
Vf
Vf(High Voltage Floating GND)
Vf(High Voltage Floating GND)
(Vscn Voltage)
Vfo(Vscn Out)
TP037
TP044
TP045
TP046
TP047
TP048
TP062
TP063
ZA6401 K4CD01000013
ZA6402 K4CD01000013
ZA6403 K4CD01000013
SC43
TO SD-BOARD (SD43)
SC44
TO SD-BOARD (SD44)
Vfo(Vscn Out)
(Vscn Voltage)
Vf(High Voltage Floating GND)
Vf(High Voltage Floating GND)
TP049
TP050
TP051
TP052
TP053
TP043
VF+5V
TP042
Vf
TP041
TP040
TP039
TP038
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID
SC 46
TO SD-BOARD (SD46)

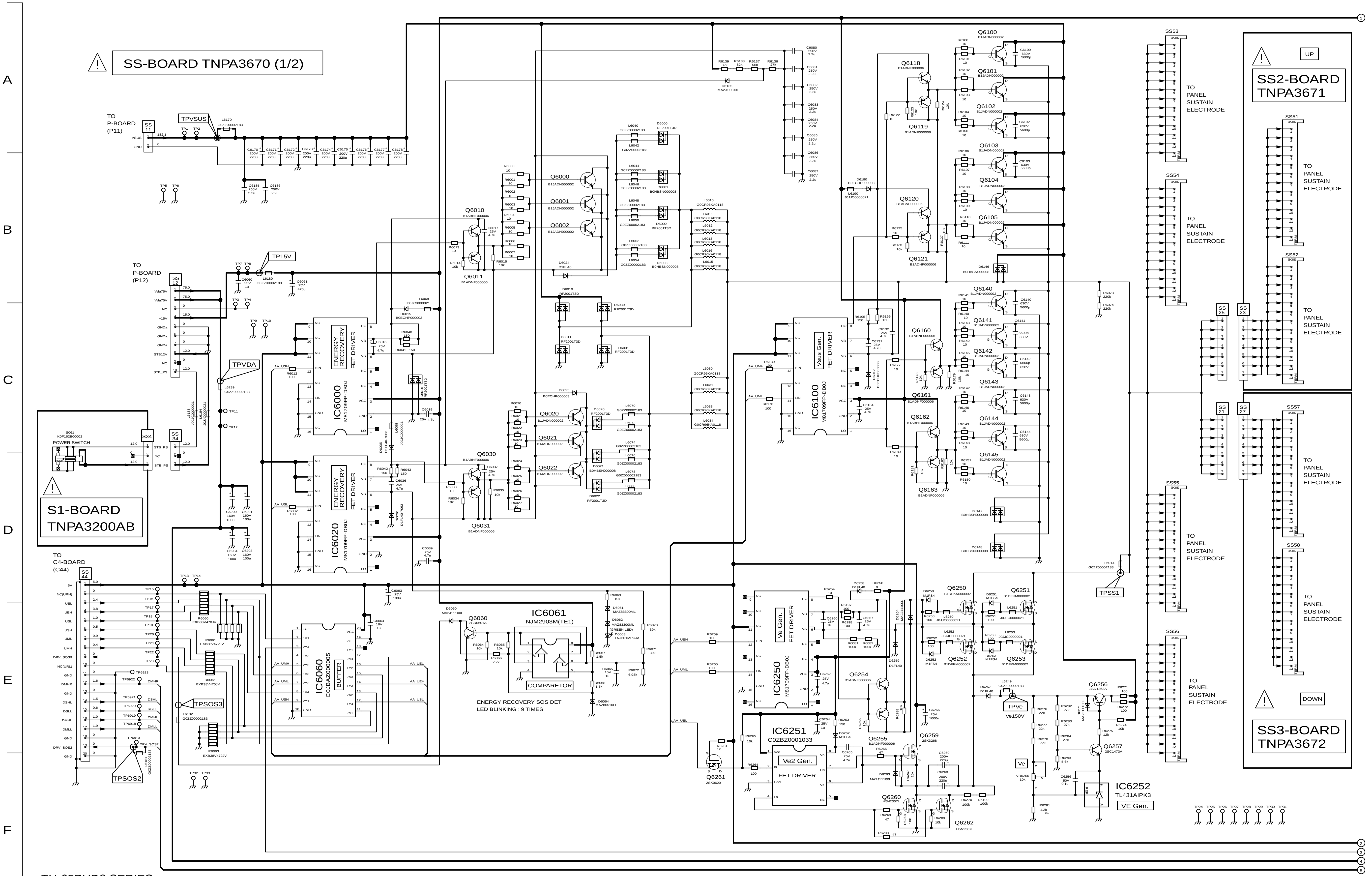
⚠ SC-BOARD TNPA3669 (3/3)

SD-BOARD TNPA3674 (1/2)


To 1st 96pins of
SCAN ELECTRODES
SD1
To 2nd 96pins of
SCAN ELECTRODES
SD2
IC6920
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6921
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6922
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
D6920
MAZ8056HL
C6920
50V 2200p
C6921
16V 1u
R6921
220
R6920
10k
D6921
B0ECHP000003
R6923
220
C6925
16V 1u
R6924
220
C6927
16V 1u
R6925
220k
D6925
B0ECHP000003
C6923
250V 0.1u
C6924
250V 0.1u
R6922
220k
C6931
250V 0.1u
C6932
250V 0.1u
AG_FSI
AG_FCLK
AG_FCL
AG_FBO
AG_FSO1
AG_FSO2
AG_FSO3
(Vscn Voltage)
Vf
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vfo(Vscn Out)
(Vscn Voltage)
Vf(High Voltage Floating GND)
SD43(Card Edge 80Pin)
TO
SC-BOARD
(SC43)
1
2
3
4

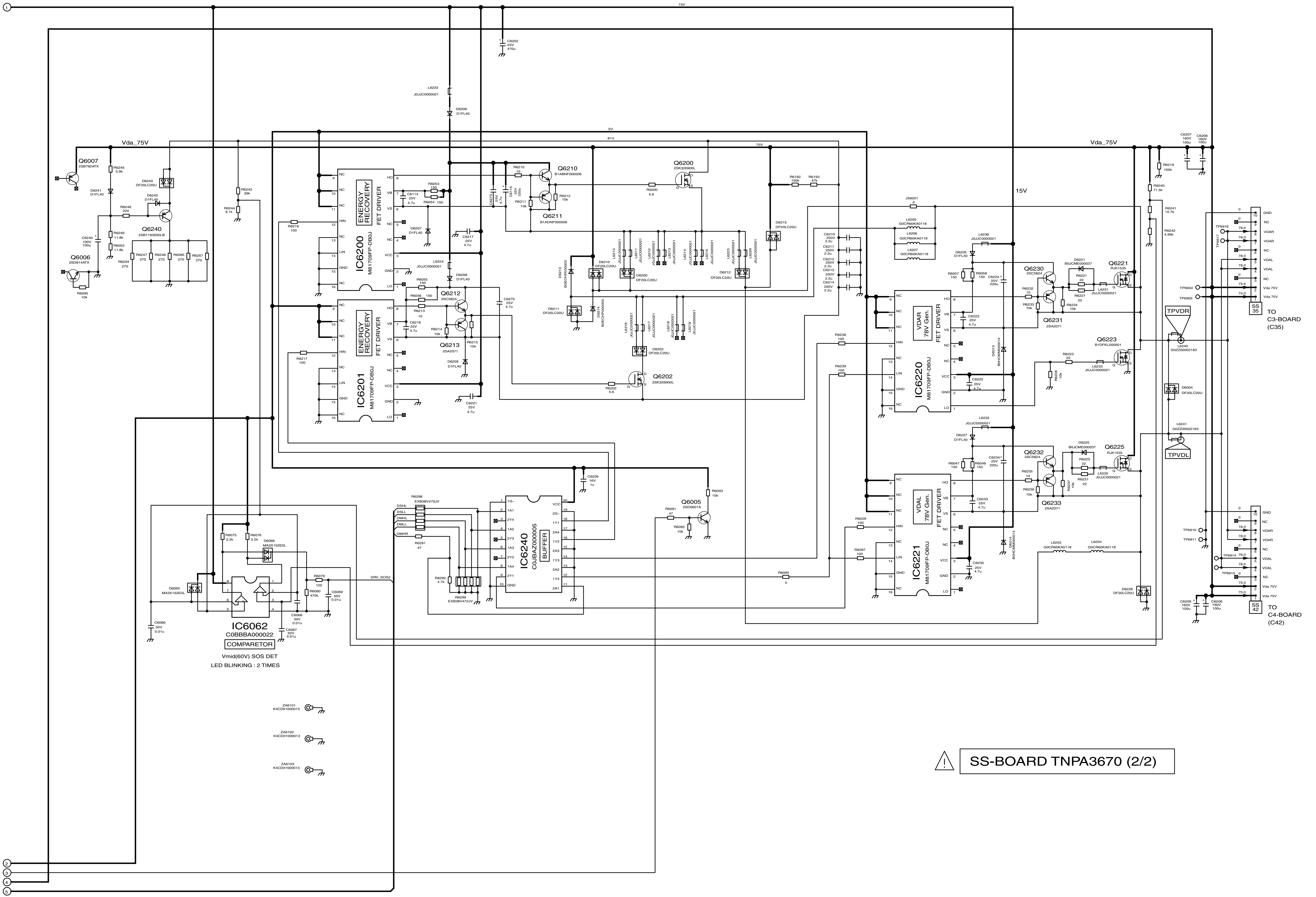
SD-BOARD TNPA3674 (2/2)


To 3rd 96pins of
SCAN ELECTRODES
To 4th 96pins of
SCAN ELECTRODES
SD3
SD4
IC6923
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6924
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6925
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
VF5V
R6926
220
R6927
10k
R6928
220
R6929
10k
R6930
10k
R6931
220
C6929
16V
1u
C6935
16V
1u
C6698
16V
1u
C6934
50V
2200p
D6926
MAZ80560HL
AG_PRO
AG_FCLK
AG_FCL
AG_FSI
SD
46
TO
SC-BOARD
(SC46)
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vf(High Voltage Floating GND)
VF5V
VF5V
PRO
FCLK
FCL
FSI
Vf
SD44(Card Edge 80Pin)
TO
SC-BOARD
(SC44)


SS-BOARD TNPA3670 (1/2)
TO P-BOARD (P11)
TPVSUS
TO P-BOARD (P12)
TP15V
TPVDA
S1-BOARD TNPA3200AB
POWER SWITCH
TO C4-BOARD (C44)
TPSOS3
TPSOS2
IC6000 M81709FP-DB0J ENERGY RECOVERY FET DRIVER
IC6020 M81709FP-DB0J ENERGY RECOVERY FET DRIVER
IC6060 C0JBAZ000005 BUFFER
IC6061 NJM2903M(TE1) COMPARETOR
ENERGY RECOVERY SOS DET
LED BLINKING : 9 TIMES
Q6000
Q6001
Q6002
Q6010
Q6011
Q6020
Q6021
Q6022
Q6030
Q6031
Q6060
IC6100 M81709FP-DB0J Vsus Gen. FET DRIVER
IC6250 M81709FP-DB0J Ve Gen. FET DRIVER
IC6251 C0ZBZ0001033 Ve2 Gen. FET DRIVER
IC6252 TL431AIPK3 VE Gen.
TPVe Ve150V
TPSS1
Q6100
Q6101
Q6102
Q6103
Q6104
Q6105
Q6118
Q6119
Q6120
Q6121
Q6140
Q6141
Q6142
Q6143
Q6144
Q6145
Q6160
Q6161
Q6162
Q6163
Q6250
Q6251
Q6252
Q6253
Q6254
Q6255
Q6256
Q6257
Q6259
Q6260
Q6261
Q6262
TO PANEL SUSTAIN ELECTRODE
SS53
SS54
SS55
SS56
SS2-BOARD TNPA3671
UP
SS51
SS52
SS3-BOARD TNPA3672
DOWN
SS57
SS58
SS25
SS23
SS21
SS27
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-65PHD8 SERIES
SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram

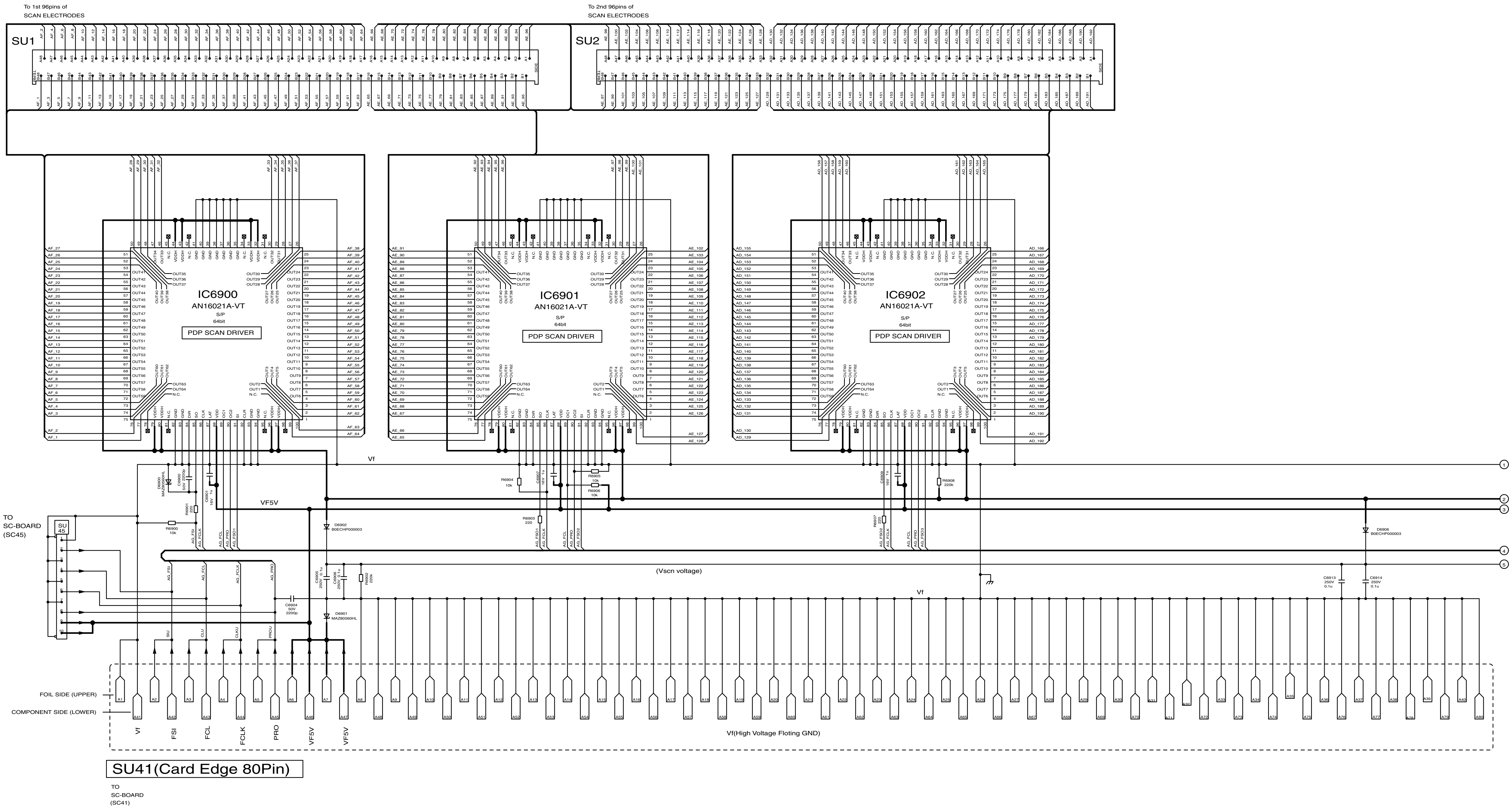
TH-65PHD8 SERIES
SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram


15V
Vda_75V
5V
81V
75V
Q6007
2SB792ATX
Q6006
2SD814ATX
Q6240
2SB1193000LB
D6240
DF20LC20U
D6241
D1FL40
D6242
D1FL40
C6202
25V
470u
L6223
J0JJC0000021
D6206
D1FL40
IC6200
M81709FP-DB0J
ENERGY RECOVERY
FET DRIVER
IC6201
M81709FP-DB0J
ENERGY RECOVERY
FET DRIVER
Q6210
B1ABNF000006
Q6211
B1ADNF000006
Q6212
2SC5824
Q6213
2SA2071
Q6200
2SK3269O0L
Q6202
2SK3269O0L
D6207
D1FL40
D6208
D1FL40
D6209
D1FL40
D6210
DF20LC20U
D6211
DF20LC20U
D6200
DF20LC20U
D6212
DF20LC20U
D6203
DF20LC20U
D6215
DF20LC20U
IC6220
M81709FP-DB0J
VDAR
78V Gen.
FET DRIVER
IC6221
M81709FP-DB0J
VDAL
78V Gen.
FET DRIVER
Q6230
2SC5824
Q6231
2SA2071
Q6232
2SC5824
Q6233
2SA2071
Q6221
RJK1535
Q6223
B1DFKL000001
Q6225
RJK1535
L6205
G0CR60KA0118
L6206
G0CR60KA0118
L6207
G0CR60KA0118
L6203
G0CR60KA0118
L6204
G0CR60KA0118
L6240
G0ZZ00002183
L6241
G0ZZ00002183
TPVDR
TPVDL
D6004
DF20LC20U
D6228
DF20LC20U
IC6240
C0JBAZ000005
BUFFER
DSHL
DSLL
DMHL
DMLL
DMHR
R6298
EXB38V470JV
R6299
EXB38V472JV
Q6005
2SD0601A
IC6062
C0BBBA000022
COMPARATOR
Vmid(60V) SOS DET
LED BLINKING : 2 TIMES
D6065
MA3X152E0L
D6066
MA3X152E0L
DRV_SOS2
ZA6101
K4CD01000013
ZA6102
K4CD01000013
ZA6103
K4CD01000013
GND
NC
VDAR
VDAL
Vda 75V
TP6904
TP6905
TP6910
TP6911
TP6914
TP6915
TP6916
TP6917
SS 35
TO
C3-BOARD
(C35)
SS 42
TO
C4-BOARD
(C42)
C6207
160V
100u
C6206
160V
100u
C6209
160V
100u
C6208
160V
100u
SS-BOARD TNPA3670 (2/2)
①
②
③
④
⑤
10
11
12
13
14
15
16
17
18

TH-65PHD8 SERIES
SS-Board (2 of 2) Schematic Diagram

TH-65PHD8 SERIES
SS-Board (2 of 2) Schematic Diagram

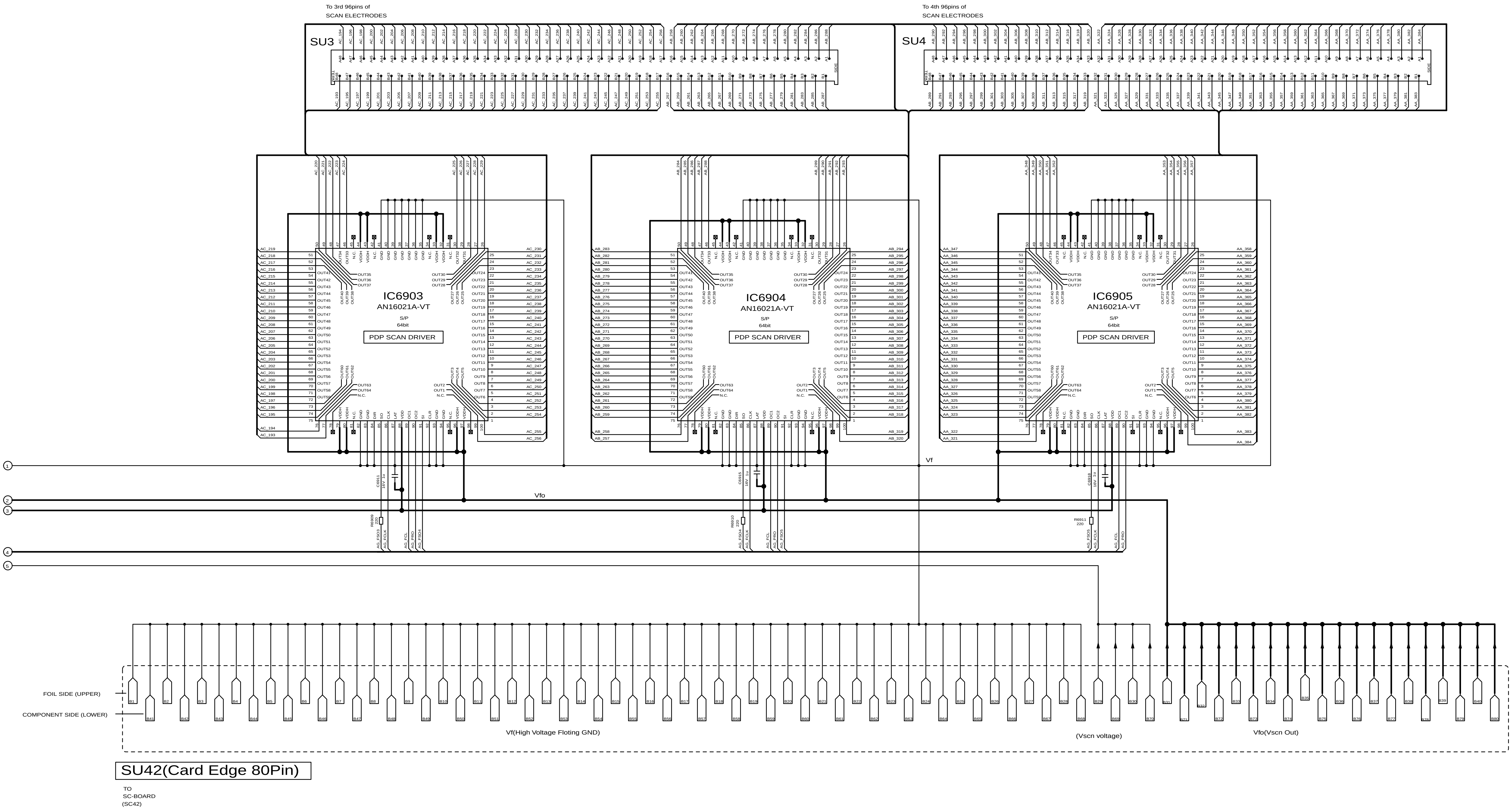
SU-BOARD TNPA3673 (1/2)


To 1st 96pins of SCAN ELECTRODES
SU1
To 2nd 96pins of SCAN ELECTRODES
SU2
IC6900
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6901
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6902
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
VF5V
(Vscn voltage)
TO SC-BOARD (SC45)
SU45
D6900 MAZ80560HL
C6900 50V 2200p
C6901 16V 1u
R6901 220
R6900 10k
D6902 B0ECHP000003
C6905 250V 0.1u
C6906 250V 0.1u
R6902 220k
C6904 50V 2200p
D6901 MAZ80560HL
R6904 10k
C6907 16V 1u
R6905 10k
R6906 10k
R6903 220
C6909 16V 1u
R6907 220
R6908 220k
D6906 B0ECHP000003
C6913 250V 0.1u
C6914 250V 0.1u
AG_FSI
AG_FCL
AG_FCLK
AG_PRO
AG_FSI1
AG_FSI2
AG_FSI3
SIU
CLU
CLKU
PROU
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vf
FSI
FCL
FCLK
PRO
VF5V
VF5V
Vf(High Voltage Floting GND)
SU41(Card Edge 80Pin)
TO SC-BOARD (SC41)

TH-65PHD8 SERIES
SU-Board (1 of 2) Schematic Diagram

TH-65PHD8 SERIES
SU-Board (1 of 2) Schematic Diagram

⚠ SU-BOARD TNPA3673 (2/2)


To 3rd 96pins of SCAN ELECTRODES
SU3
To 4th 96pins of SCAN ELECTRODES
SU4
IC6903
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6904
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6905
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
Vfo
C6911 16V 1u
C6915 16V 1u
C6918 16V 1u
R6909 220
R6910 220
R6911 220
1
2
3
4
5
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vf(High Voltage Floting GND)
(Vscn voltage)
Vfo(Vscn Out)
SU42(Card Edge 80Pin)
TO SC-BOARD (SC42)

15 Schematic Diagrams

15.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is µF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:

Power Source	AC120V, 50/60Hz (UK) AC220-240V, 50/60Hz (BK/EK)
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions

7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.

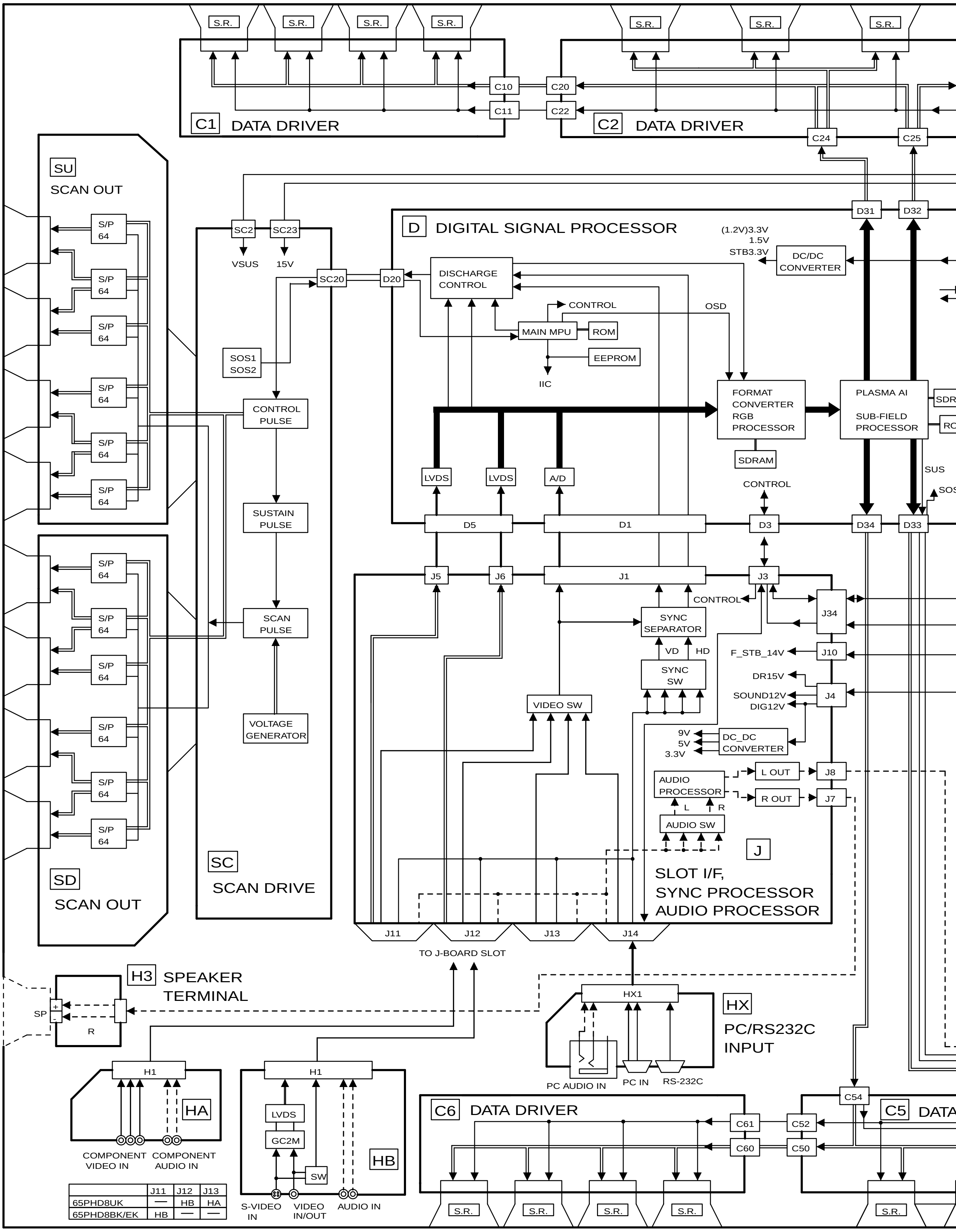
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

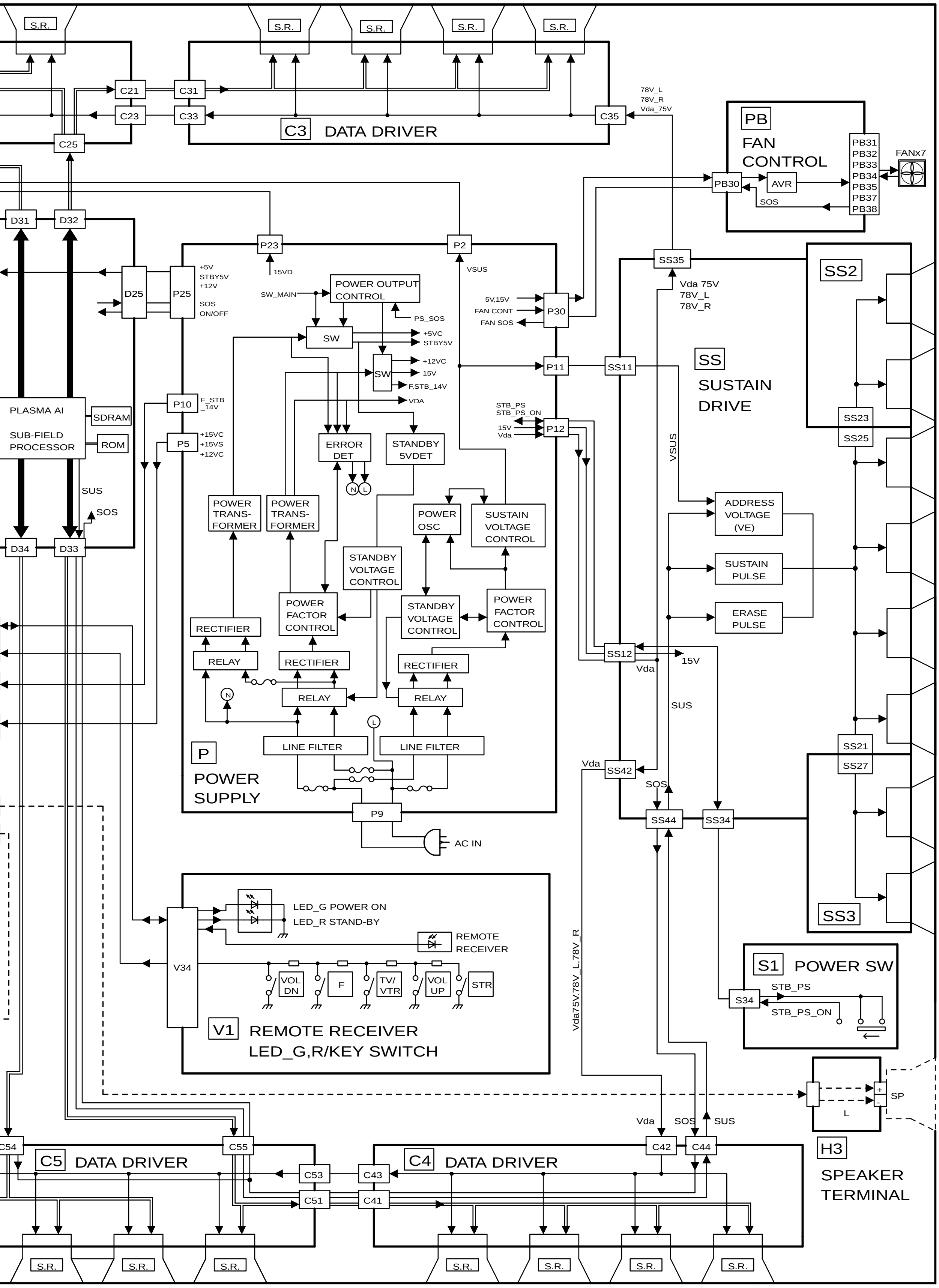
1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

TH-65PHD8 SERIES
Schematic Diagram Notes

15.2. Main Block Diagram

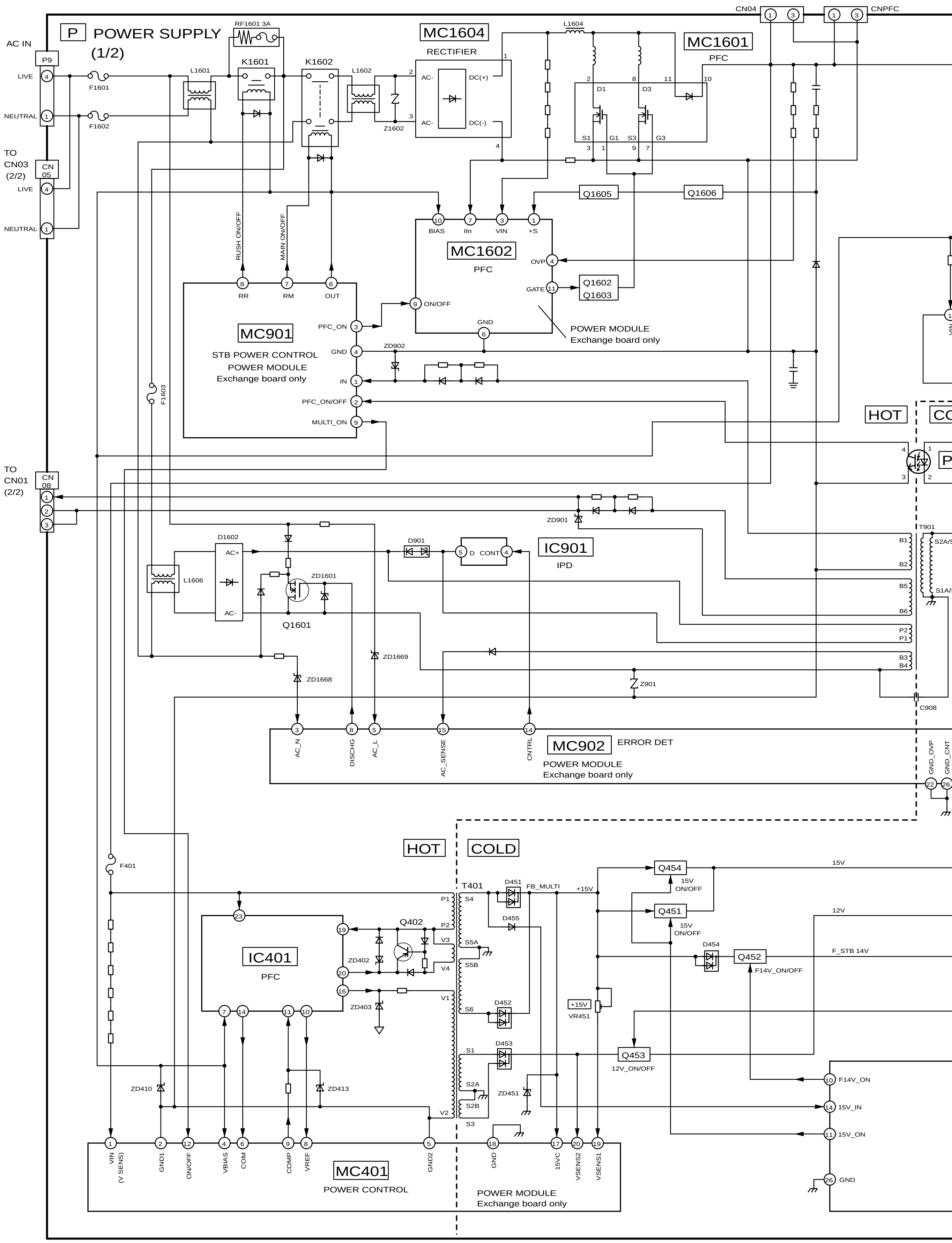

S.R.
C1 DATA DRIVER
C2 DATA DRIVER
C10
C11
C20
C22
C24
C25
SU
SCAN OUT
S/P 64
SC2
SC23
VSUS
15V
SC20
D20
SOS1
SOS2
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SC
SCAN DRIVE
SD
SCAN OUT
D
DIGITAL SIGNAL PROCESSOR
(1.2V)3.3V
1.5V
STB3.3V
DC/DC CONVERTER
DISCHARGE CONTROL
CONTROL
OSD
MAIN MPU
ROM
EEPROM
IIC
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
SDR
RC
SDRAM
SUS
SOS
LVDS
A/D
D5
D1
D3
D34
D33
D31
D32
J5
J6
J1
J3
J34
J10
J4
J8
J7
CONTROL
SYNC SEPARATOR
VD
HD
SYNC SW
VIDEO SW
F_STB_14V
DR15V
SOUND12V
DIG12V
9V
5V
3.3V
DC_DC CONVERTER
AUDIO PROCESSOR
L OUT
R OUT
L
R
AUDIO SW
J
SLOT I/F,
SYNC PROCESSOR
AUDIO PROCESSOR
J11
J12
J13
J14
TO J-BOARD SLOT
H3
SPEAKER TERMINAL
SP
R
HX1
HX
PC/RS232C INPUT
PC AUDIO IN
PC IN
RS-232C
H1
HA
COMPONENT VIDEO IN
COMPONENT AUDIO IN
LVDS
GC2M
SW
HB
S-VIDEO IN
VIDEO IN/OUT
AUDIO IN
C6 DATA DRIVER
C61
C60
C52
C50
C54
C5 DATA
J11 J12 J13
65PHD8UK — HB HA
65PHD8BK/EK HB — —

TH-65PHD8 SERIES
Main Block Diagram

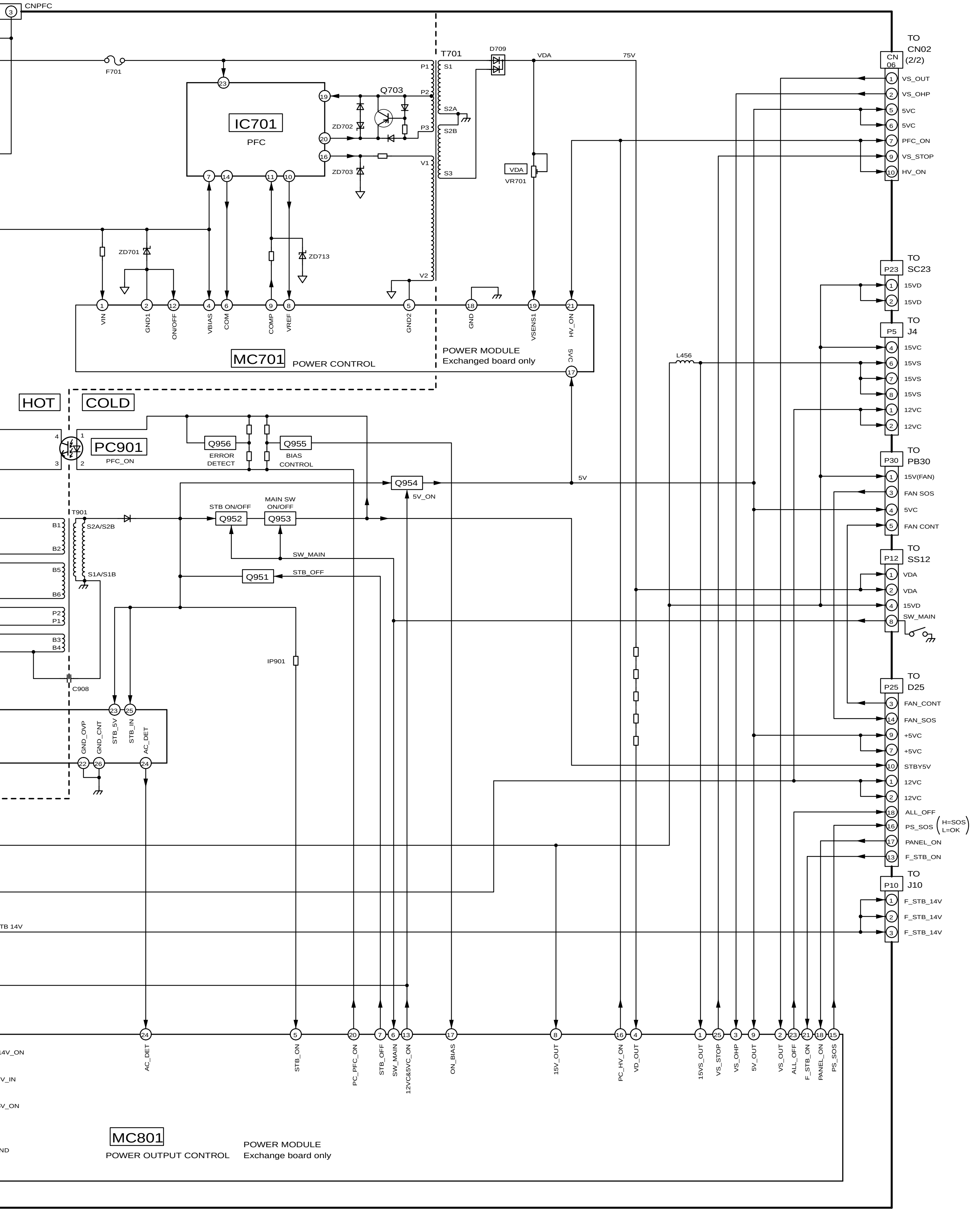

S.R.
C21
C23
C25
C31
C33
C35
C3 DATA DRIVER
78V_L
78V_R
Vda_75V
PB
FAN
CONTROL
PB30
AVR
SOS
PB31
PB32
PB33
PB34
PB35
PB37
PB38
FANx7
D31
D32
D25
P25
+5V
STBY5V
+12V
SOS
ON/OFF
P23
15VD
P2
VSUS
SW_MAIN
POWER OUTPUT CONTROL
PS_SOS
SW
+5VC
STBY5V
+12VC
15V
F,STB_14V
VDA
5V,15V
FAN CONT
FAN SOS
P30
P11
SS11
SS35
Vda 75V
78V_L
78V_R
SS2
SS
SUSTAIN
DRIVE
STB_PS
STB_PS_ON
15V
Vda
P12
SS23
SS25
VSUS
PLASMA AI
SUB-FIELD
PROCESSOR
SDRAM
ROM
P10
F_STB _14V
P5
+15VC
+15VS
+12VC
ERROR DET
STANDBY 5VDET
N
L
SUS
SOS
POWER TRANS-FORMER
POWER TRANS-FORMER
POWER OSC
SUSTAIN VOLTAGE CONTROL
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
D34
D33
STANDBY VOLTAGE CONTROL
POWER FACTOR CONTROL
STANDBY VOLTAGE CONTROL
POWER FACTOR CONTROL
RECTIFIER
RELAY
RECTIFIER
RECTIFIER
RELAY
RELAY
N
L
SS12
15V
Vda
SUS
LINE FILTER
LINE FILTER
P
POWER
SUPPLY
SS21
SS27
Vda
SS42
SOS
SS44
SS34
P9
AC IN
SS3
LED_G POWER ON
LED_R STAND-BY
REMOTE RECEIVER
V34
VOL DN
F
TV/ VTR
VOL UP
STR
V1 REMOTE RECEIVER
LED_G,R/KEY SWITCH
Vda75V,78V_L,78V_R
S1 POWER SW
STB_PS
S34
STB_PS_ON
SP
L
Vda
SOS
SUS
C54
C55
C5 DATA DRIVER
C53
C51
C43
C41
C4 DATA DRIVER
C42
C44
H3
SPEAKER
TERMINAL

TH-65PHD8 SERIES
Main Block Diagram

15.3. P-Board (1 of 2)Block Diagram

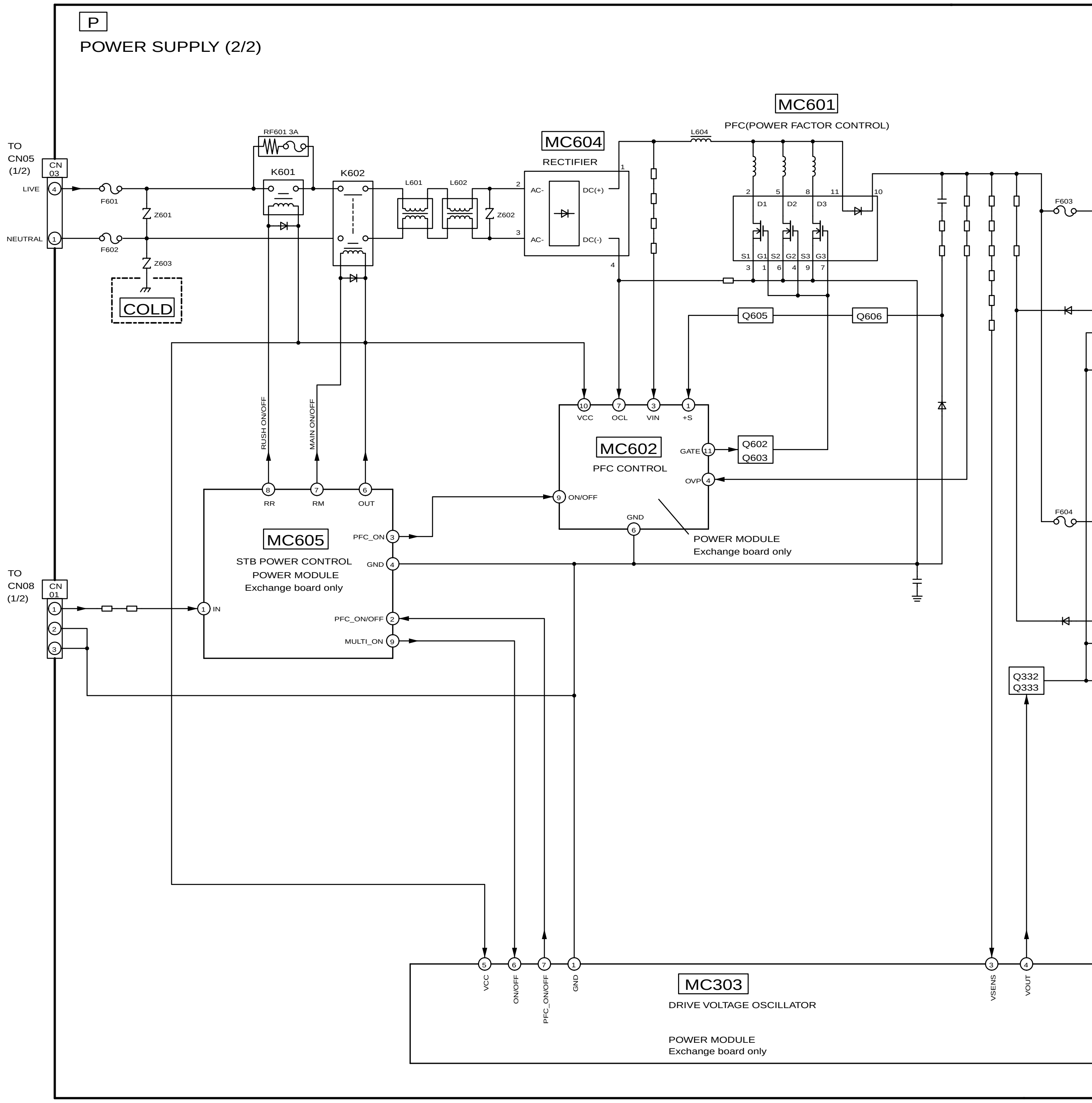

P POWER SUPPLY (1/2)
AC IN
P9
LIVE
NEUTRAL
F1601
F1602
TO CN03 (2/2)
CN 05
TO CN01 (2/2)
CN 08
RF1601 3A
L1601
K1601
K1602
L1602
Z1602
MC1604
RECTIFIER
AC-
DC(+)
DC(-)
L1604
MC1601
PFC
D1
D3
S1
G1
S3
G3
CN04
CNPFC
Q1605
Q1606
RUSH ON/OFF
MAIN ON/OFF
MC1602
PFC
BIAS
IIn
VIN
+S
OVP
GATE
ON/OFF
GND
Q1602
Q1603
POWER MODULE
Exchange board only
MC901
STB POWER CONTROL
POWER MODULE
Exchange board only
RR
RM
OUT
PFC_ON
GND
IN
PFC_ON/OFF
MULTI_ON
ZD902
F1603
HOT
COLD
ZD901
D1602
AC+
AC-
L1606
ZD1601
Q1601
D901
D
CONT
IC901
IPD
ZD1669
ZD1668
Z901
T901
B1
B2
B5
B6
P2
P1
B3
B4
S2A/S
S1A/S
C908
MC902
ERROR DET
POWER MODULE
Exchange board only
AC_N
DISCHG
AC_L
AC_SENSE
CNTRL
GND_OVP
GND_CNT
HOT
COLD
F401
IC401
PFC
Q402
ZD402
ZD403
ZD410
ZD413
T401
P1
P2
V3
V4
V1
V2
S4
S5A
S5B
S6
S1
S2A
S2B
S3
D451
D455
D452
D453
FB_MULTI
+15V
Q454
Q451
Q452
Q453
D454
15V ON/OFF
15V
12V
F_STB 14V
F14V_ON/OFF
12V_ON/OFF
VR451
ZD451
F14V_ON
15V_IN
15V_ON
GND
MC401
POWER CONTROL
VIN (V SENS)
GND1
ON/OFF
VBIAS
COM
COMP
VREF
GND2
GND
15VC
VSENS2
VSENS1
POWER MODULE
Exchange board only

TH-65PHD8 SERIES
P-Board (1 of 2) Block Diagram

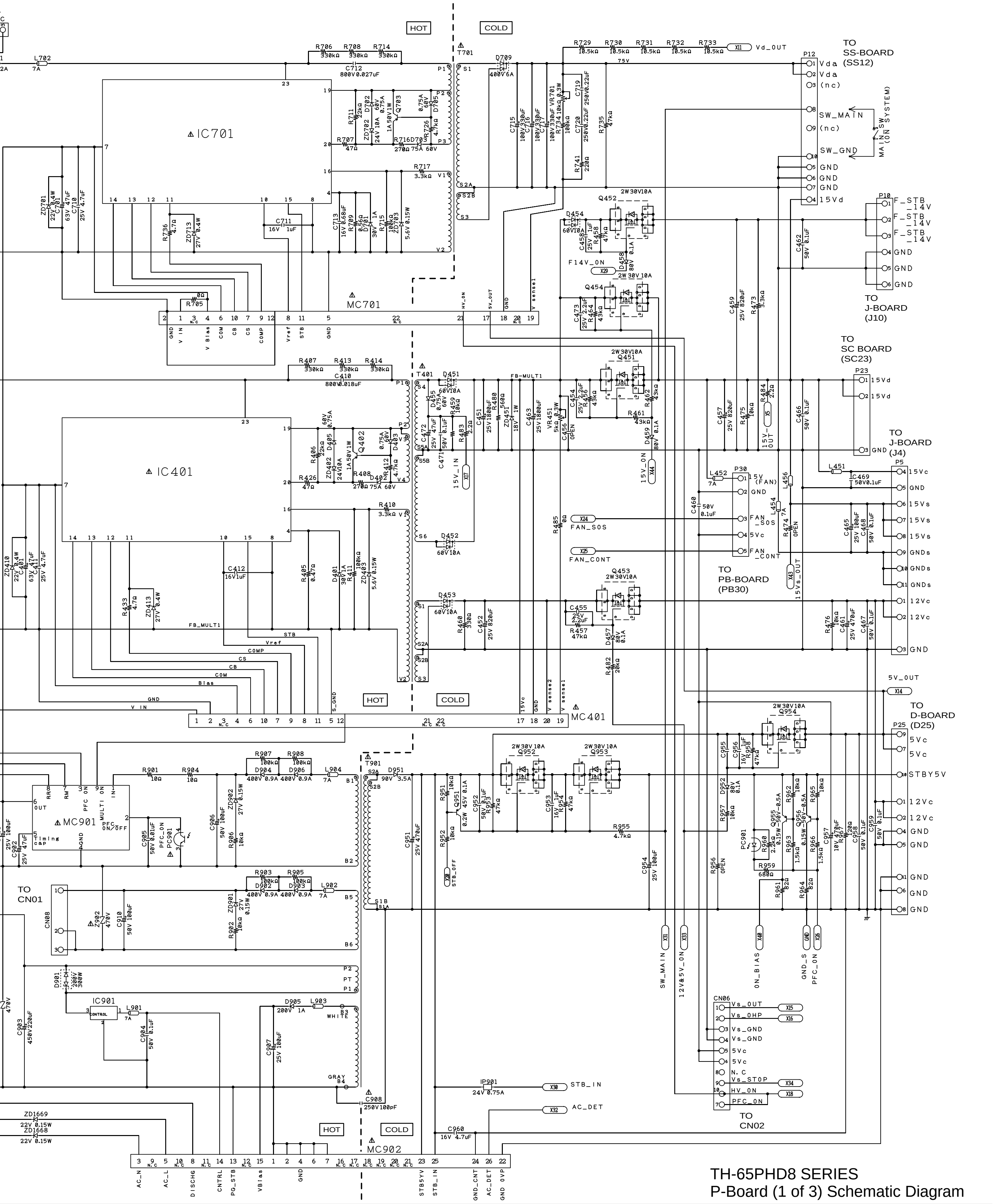

CNPFC
3
F701
T701
P1
S1
D709
VDA
75V
TO CN02 (2/2)
CN 06
1 VS_OUT
2 VS_OHP
5 5VC
6 5VC
7 PFC_ON
9 VS_STOP
10 HV_ON
IC701
PFC
23
19
20
16
7
14
11
10
Q703
P2
S2A
ZD702
P3
S2B
V1
S3
ZD703
VDA
VR701
ZD701
ZD713
V2
1 VIN
2 GND1
12 ON/OFF
4 VBIAS
6 COM
9 COMP
8 VREF
5 GND2
18 GND
19 VSENS1
21 HV_ON
17 5VC
MC701
POWER CONTROL
POWER MODULE
Exchanged board only
TO SC23
P23
1 15VD
2 15VD
TO J4
P5
4 15VC
6 15VS
7 15VS
8 15VS
1 12VC
2 12VC
L456
HOT
COLD
PC901
PFC_ON
Q956
ERROR DETECT
Q955
BIAS CONTROL
TO PB30
P30
1 15V(FAN)
3 FAN SOS
4 5VC
5 FAN CONT
Q954
5V
5V_ON
T901
B1
S2A/S2B
B2
B5
S1A/S1B
B6
P2
P1
B3
B4
STB ON/OFF
Q952
MAIN SW ON/OFF
Q953
SW_MAIN
Q951
STB_OFF
TO SS12
P12
1 VDA
2 VDA
4 15VD
8 SW_MAIN
IP901
C908
23 STB_5V
25 STB_IN
22 GND_OVP
26 GND_CNT
24 AC_DET
TO D25
P25
3 FAN_CONT
14 FAN_SOS
9 +5VC
7 +5VC
10 STBY5V
1 12VC
2 12VC
18 ALL_OFF
16 PS_SOS
H=SOS
L=OK
17 PANEL_ON
13 F_STB_ON
TO J10
P10
1 F_STB_14V
2 F_STB_14V
3 F_STB_14V
TB 14V
14V_ON
V_IN
V_ON
ND
24 AC_DET
5 STB_ON
20 PC_PFC_ON
7 STB_OFF
6 SW_MAIN
13 12VC&5VC_ON
17 ON_BIAS
8 15V_OUT
16 PC_HV_ON
4 VD_OUT
1 15VS_OUT
25 VS_STOP
3 VS_OHP
9 5V_OUT
2 VS_OUT
23 ALL_OFF
21 F_STB_ON
18 PANEL_ON
15 PS_SOS
MC801
POWER OUTPUT CONTROL
POWER MODULE
Exchange board only

TH-65PHD8 SERIES
P-Board (1 of 2) Block Diagram

15.4. P-Board (2 of 2)Block Diagram

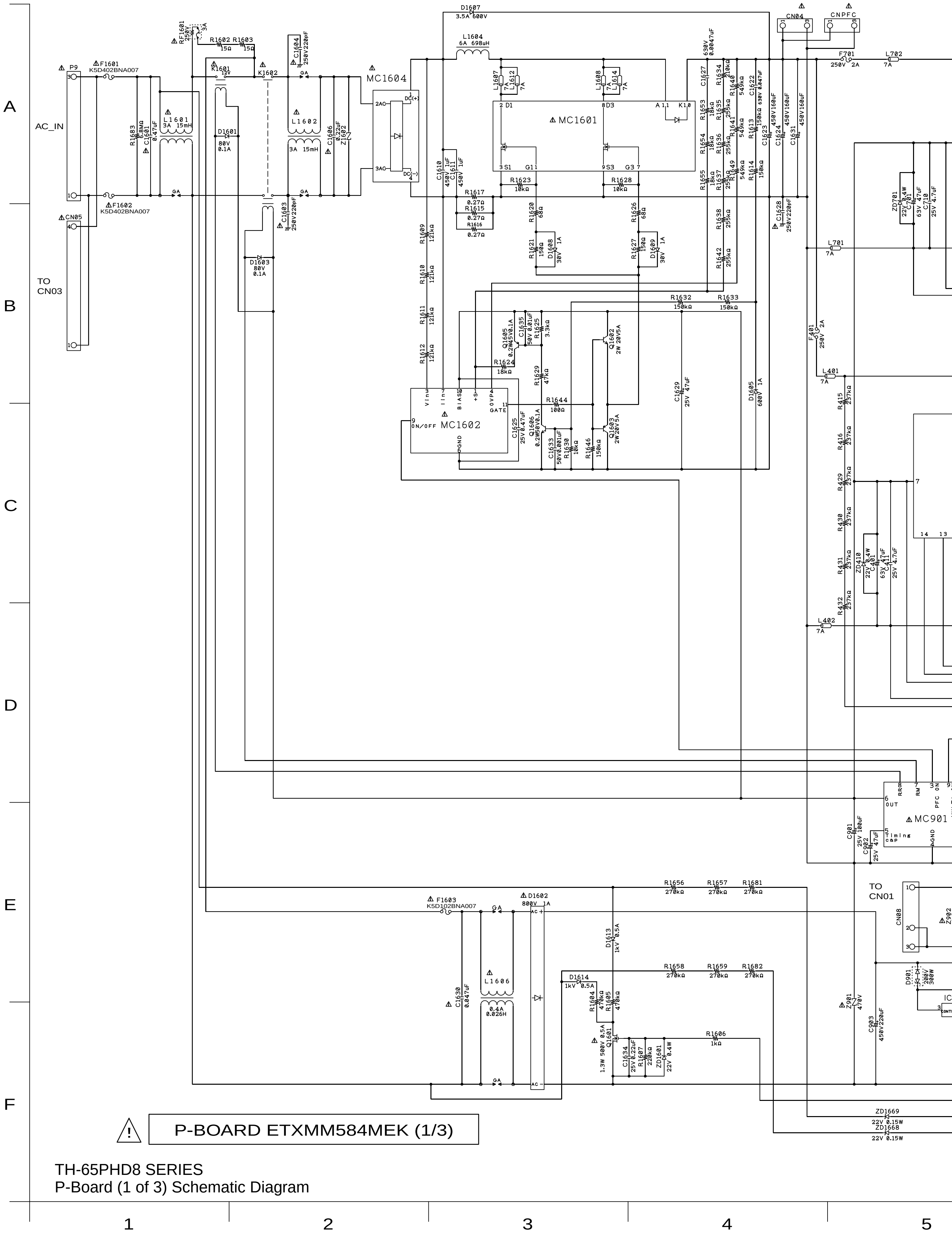

P
POWER SUPPLY (2/2)
TO
CN05
(1/2)
CN
03
LIVE
NEUTRAL
F601
F602
Z601
Z603
COLD
RF601 3A
K601
K602
L601
L602
Z602
MC604
RECTIFIER
AC-
AC-
DC(+)
DC(-)
L604
MC601
PFC(POWER FACTOR CONTROL)
D1
D2
D3
S1
G1
S2
G2
S3
G3
F603
Q605
Q606
RUSH ON/OFF
MAIN ON/OFF
VCC
OCL
VIN
+S
MC602
PFC CONTROL
GATE
Q602
Q603
OVP
ON/OFF
GND
POWER MODULE
Exchange board only
F604
RR
RM
OUT
MC605
STB POWER CONTROL
POWER MODULE
Exchange board only
PFC_ON
GND
PFC_ON/OFF
MULTI_ON
IN
TO
CN08
(1/2)
CN
01
Q332
Q333
VCC
ON/OFF
PFC_ON/OFF
GND
MC303
DRIVE VOLTAGE OSCILLATOR
POWER MODULE
Exchange board only
VSENS
VOUT

TH-65PHD8 SERIES
P-Board (2 of 2) Block Diagram

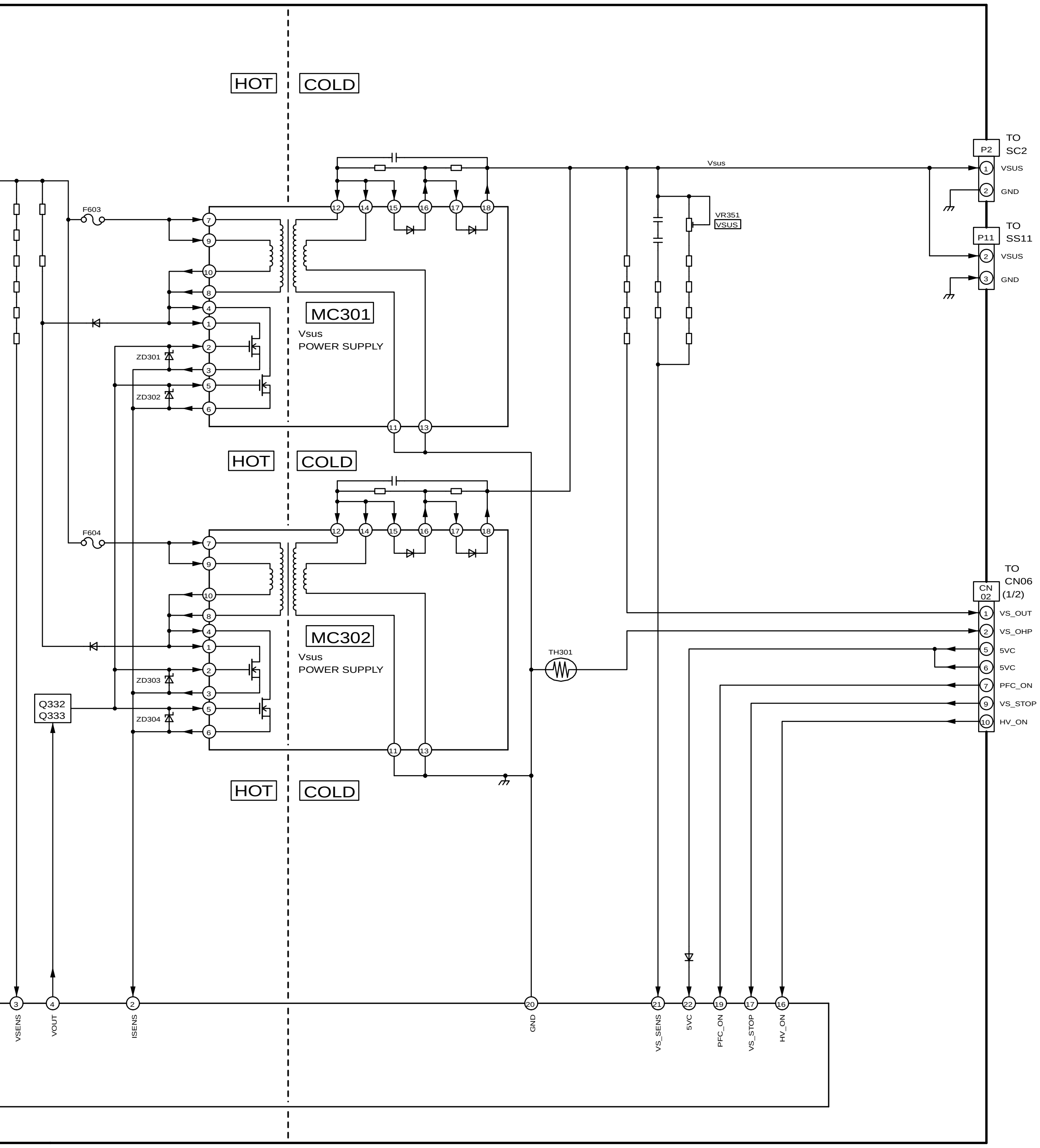

HOT
COLD
IC701
IC401
MC701
MC401
MC901
MC902
IC901
T701
T401
T901
PC901
TO SS-BOARD (SS12)
P12
Vda
Vda
(nc)
SW_MAIN
(nc)
SW_GND
GND
GND
GND
15Vd
MAIN SW (ON SYSTEM)
P10
F_STB_14V
F_STB_14V
F_STB_14V
GND
GND
GND
TO J-BOARD (J10)
TO SC BOARD (SC23)
P23
15Vd
15Vd
GND
TO J-BOARD (J4)
P5
15Vc
GND
15Vs
15Vs
15Vs
GNDs
GNDs
GNDs
12Vc
12Vc
GND
P30
15V (FAN)
GND
FAN_SOS
5Vc
FAN_CONT
TO PB-BOARD (PB30)
5V_OUT
TO D-BOARD (D25)
P25
5Vc
5Vc
STBY5V
12Vc
12Vc
GND
GND
GND
GND
GND
TO CN01
CN08
CN06
Vs_OUT
Vs_OHP
Vs_GND
Vs_GND
5Vc
5Vc
N.C
Vs_STOP
HV_ON
PFC_ON
TO CN02
STB_IN
AC_DET
F14V_ON
FB_MULT1
SW_MAIN
12V&5V_ON
ON_BIAS
GND_S
PFC_ON
AC_N
AC_L
DISCHG
CNTRL
PG_STB
VBias
GND
STB5YV
STB_IN
GND_CNT
AC_DET
GND OVP
WHITE
GRAY
5
6
7
8
9

TH-65PHD8 SERIES
P-Board (1 of 3) Schematic Diagram

15.5. P-Board (1 of 3) Schematic Diagram

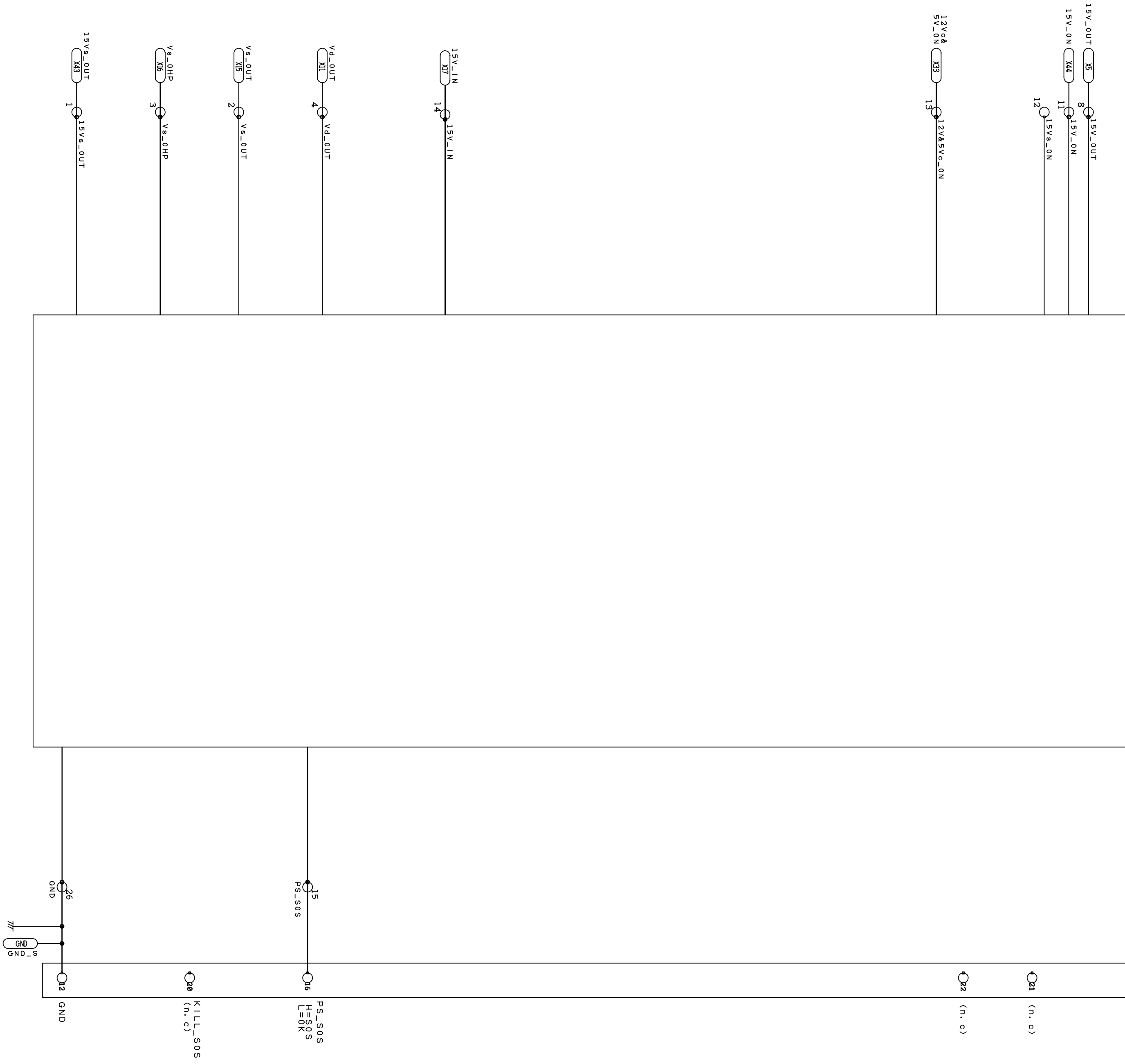

A
B
C
D
E
F
1
2
3
4
5
AC_IN
P9
TO CN03
CN05
F1601 K5D402BNA007
F1602 K5D402BNA007
RF1601 250V 3A
R1602 15Ω
R1603 15Ω
R1683 6.8MΩ
C1601 0.47uF
L1601 3A 15mH
K1601 12V
D1601 80V 0.1A
K1602
C1604 250V220pF
C1603 250V220pF
D1603 80V 0.1A
L1602 3A 15mH
C1606 0.22uF
Z1602
MC1604
2AC
3AC
DC(+)
DC(-)
D1607 3.5A 600V
L1604 6A 698uH
C1610 450V 1uF
C1611 450V 1uF
L1607 7A
L1612 7A
L1608 7A
L1614 7A
MC1601
D1
D3
S1
G1
S3
G3
A
K
R1617 0.27Ω
R1615 0.27Ω
R1616 0.27Ω
R1623 10kΩ
R1628 10kΩ
R1620 68Ω
R1626 68Ω
R1621 150Ω
R1627 150Ω
D1608 30V 1A
D1609 30V 1A
R1609 121kΩ
R1610 121kΩ
R1611 121kΩ
R1612 121kΩ
Q1605 0.2W45V0.1A
C1635 50V 0.01uF
R1625 3.3kΩ
R1624 18kΩ
R1629 47kΩ
Q1602 2W 20V5A
R1644 100Ω
MC1602
ON/OFF
GND
GATE
OVP
BIAS
C1625 25V 0.47uF
Q1606 0.2W50V0.1A
C1633 50V0.001uF
R1630 10kΩ
R1646 150kΩ
Q1603 2W20V5A
R1632 150kΩ
R1633 150kΩ
C1629 25V 47uF
D1605 600V 1A
C1627 630V 0.0047uF
R1653 18kΩ
R1634 210kΩ
R1635 255kΩ
R1640 255kΩ
R1654 18kΩ
R1636 255kΩ
R1641 255kΩ
R1649 549kΩ
R1613 549kΩ
R1655 18kΩ
R1637 255kΩ
R1614 150kΩ
R1638 255kΩ
R1642 255kΩ
C1622 630V 0.047uF
C1623 450V160uF
C1624 450V160uF
C1631 450V160uF
C1628 250V220pF
CN04
CNPFC
F701 250V 2A
L702 7A
L701 7A
ZD701 22V 0.4W
C701 63V 47uF
C710 25V 4.7uF
F401 250V 2A
L401 7A
R415 237kΩ
R416 237kΩ
R429 237kΩ
R430 237kΩ
R431 237kΩ
R432 237kΩ
ZD410 22V 0.4W
C401 63V 47uF
C411 25V 4.7uF
L402 7A
MC901
OUT
Timing cap
GND
PFC ON
C901 25V 100uF
C902 25V 47uF
TO CN01
CN08
Z902
D901 200V 300W
Z901 470V
C903 450V220uF
F1603 K5D102BNA007
D1602 800V 1A
C1630 0.047uF
L1606 0.4A 0.026H
R1656 270kΩ
R1657 270kΩ
R1681 270kΩ
D1613 1kV 0.5A
R1658 270kΩ
R1659 270kΩ
R1682 270kΩ
D1614 1kV 0.5A
R1604 470kΩ
R1605 470kΩ
Q1601 1.3W 500V 0.5A
C1634 25V 0.22uF
R1607 220kΩ
ZD1601 22V 0.4W
R1606 1kΩ
ZD1669 22V 0.15W
ZD1668 22V 0.15W
GA

⚠ P-BOARD ETXMM584MEK (1/3)

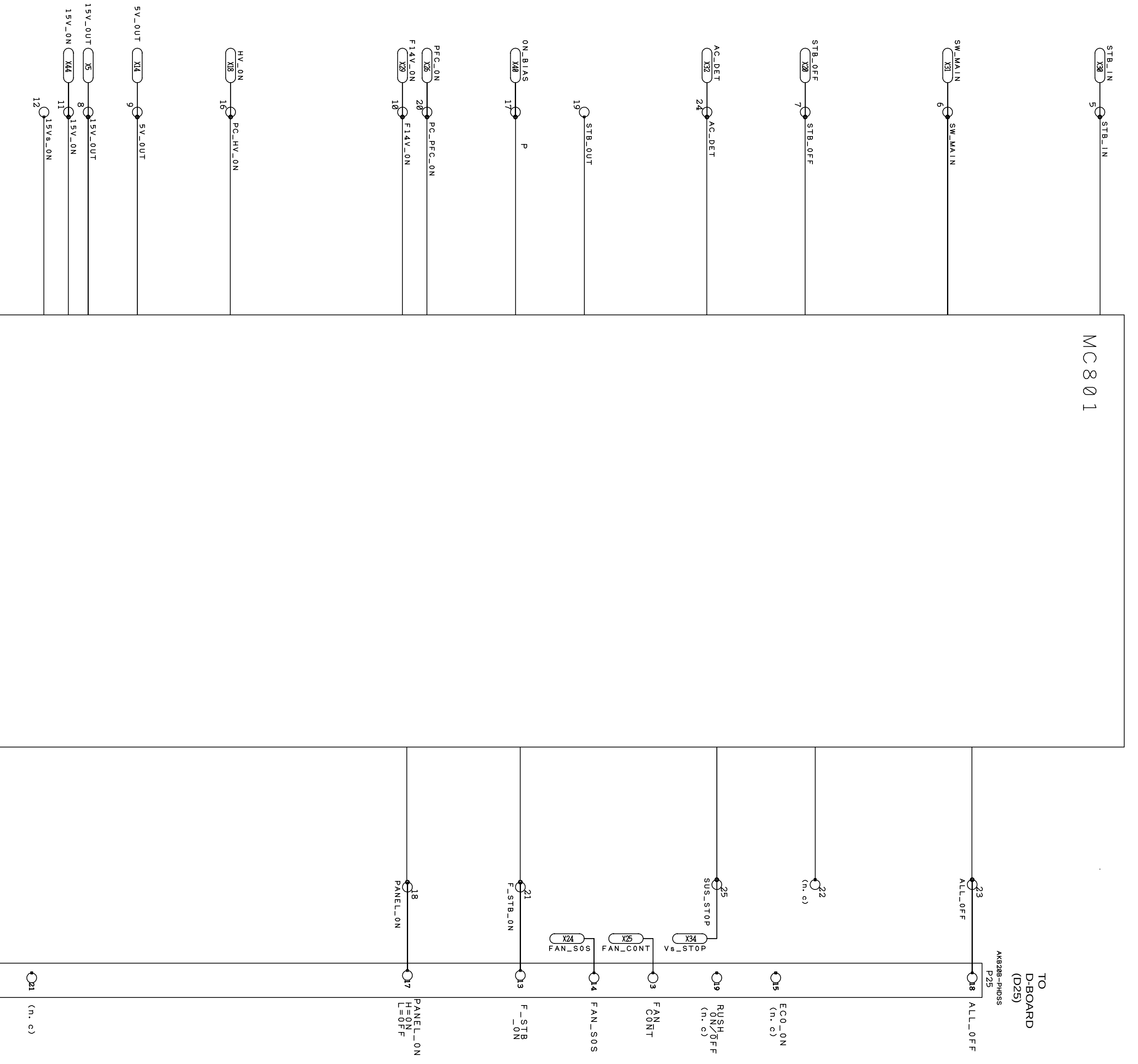

HOT
COLD
TO
SC2
P2
VSUS
GND
TO
SS11
P11
VSUS
GND
Vsus
VR351
VSUS
F603
MC301
Vsus
POWER SUPPLY
ZD301
ZD302
HOT
COLD
F604
MC302
Vsus
POWER SUPPLY
ZD303
ZD304
Q332
Q333
TH301
TO
CN06
(1/2)
CN
02
VS_OUT
VS_OHP
5VC
5VC
PFC_ON
VS_STOP
HV_ON
HOT
COLD
VSENS
VOUT
ISENS
GND
VS_SENS
5VC
PFC_ON
VS_STOP
HV_ON

TH-65PHD8 SERIES
P-Board (2 of 2) Block Diagram

15.6. P-Board (2 of 3) Schematic Diagram

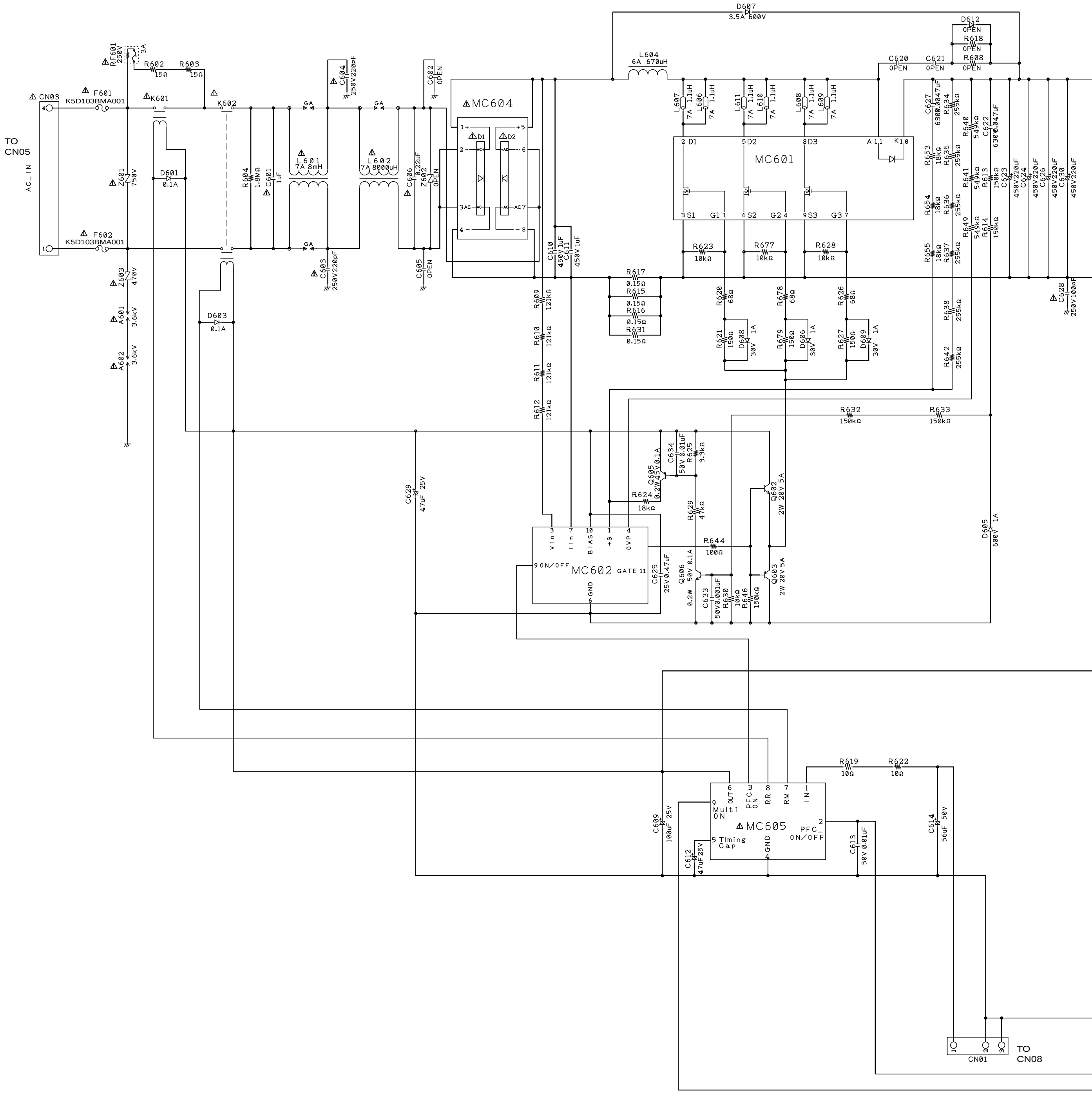

15Vs_OUT
X43
1
15Vs_OUT
Vs_OHP
X16
3
Vs_OHP
Vs_OUT
X15
2
Vs_OUT
Vd_OUT
X11
4
Vd_OUT
15V_IN
X17
14
15V_IN
12Vc&
5V_ON
X33
13
12V&5Vc_ON
12
15Vs_ON
15V_ON
X44
11
15V_ON
15V_OUT
X5
8
15V_OUT
GND
26
PS_SOS
15
GND
GND_S
12
GND
20
KILL_SOS
(n.c)
16
PS_SOS
H=SOS
L=OK
22
(n.c)
21
(n.c)

⚠ P-BOARD ETXMM584MEK (2/3)


15V_ON
X44
15V_OUT
X5
5V_OUT
X14
HV_ON
X18
F14V_ON
X29
PFC_ON
X26
ON_BIAS
X40
AC_DET
X32
STB_OFF
X20
SW_MAIN
X31
STB_IN
X30
12
15Vs_ON
11
15V_ON
8
15V_OUT
9
5V_OUT
16
PC_HV_ON
10
F14V_ON
20
PC_PFC_ON
17
P
19
STB_OUT
24
AC_DET
7
STB_OFF
6
SW_MAIN
5
STB_IN
MC801
18
PANEL_ON
21
F_STB_ON
25
SUS_STOP
22
(n. c)
23
ALL_OFF
X24
FAN_SOS
X25
FAN_CONT
X34
Vs_STOP
21
(n. c)
17
PANEL_ON
H=ON
L=OFF
13
F_STB
_ON
14
FAN_SOS
3
FAN
CONT
19
RUSH
ON/OFF
(n. c)
15
ECO_ON
(n. c)
18
ALL_OFF
AKB288-PHDSS
P25
(D25)
D-BOARD
TO
14
15
16
17
18

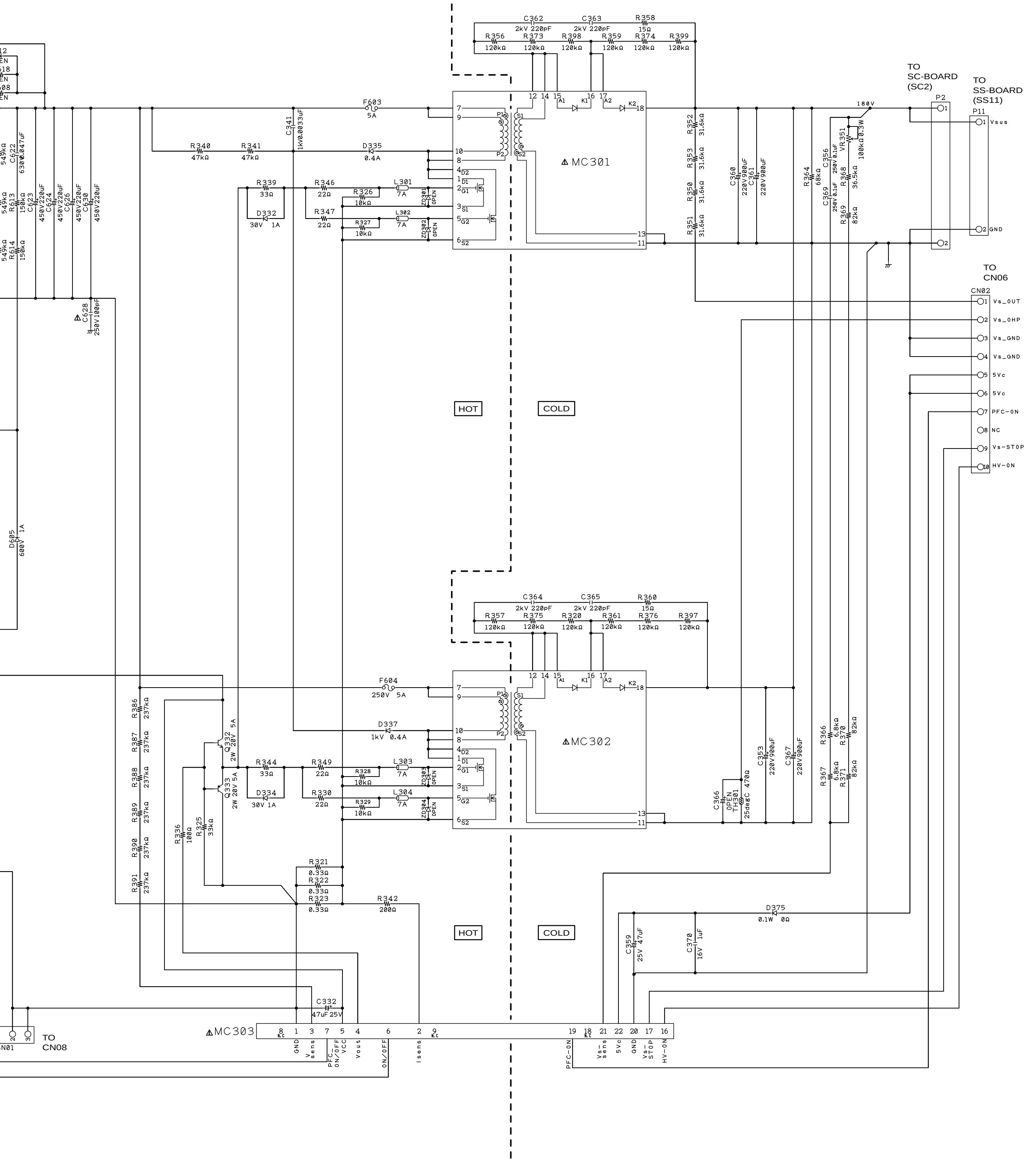
TH-65PHD8 SERIES
P-Board (2 of 3) Schematic Diagram

15.7. P-Board (3 of 3) Schematic Diagram


TO CN05
AC_IN
CN03
F601 K5D103BMA001
F602 K5D103BMA001
RF601 250V 3A
R602 15Ω
R603 15Ω
K601
K602
Z601 750V
D601 0.1A
Z603 470V
A601 3.6kV
A602 3.6kV
D603 0.1A
R604 1.8MΩ
C601 1uF
L601 7A 8mH
L602 7A 8000uH
C604 250V220pF
C603 250V220pF
C602 OPEN
C605 OPEN
C606 0.22uF
Z602 OPEN
MC604
D1
D2
C610 450V 1uF
C611 450V 1uF
R609 121kΩ
R610 121kΩ
R611 121kΩ
R612 121kΩ
L604 6A 670uH
D607 3.5A 600V
D612 OPEN
R618 OPEN
R608 OPEN
C620 OPEN
C621 OPEN
L607 7A 1.1uH
L606 7A 1.1uH
L611 7A 1.1uH
L610 7A 1.1uH
L608 7A 1.1uH
L609 7A 1.1uH
MC601
D1 D2 D3 S1 G1 S2 G2 S3 G3 A K
R623 10kΩ
R677 10kΩ
R628 10kΩ
R617 0.15Ω
R615 0.15Ω
R616 0.15Ω
R631 0.15Ω
R620 68Ω
R678 68Ω
R626 68Ω
R621 150Ω
R679 150Ω
R627 150Ω
D608 30V 1A
D606 30V 1A
D609 30V 1A
C627 630V 0.0047uF
R634 255kΩ
R640 549kΩ
C622 630V 0.047uF
R653 18kΩ
R635 255kΩ
R641 255kΩ
R613 150kΩ
R654 18kΩ
R636 255kΩ
R649 549kΩ
R614 150kΩ
R655 18kΩ
R637 255kΩ
C623 450V220uF
C624 450V220uF
C626 450V220uF
C630 450V220uF
C628 250V100pF
R638 255kΩ
R642 255kΩ
R632 150kΩ
R633 150kΩ
C629 47uF 25V
Q605 0.2W 45V 0.1A
C634 50V 0.01uF
R625 3.3kΩ
R624 18kΩ
R629 47kΩ
Q602 2W 20V 5A
R644 100Ω
Q603 2W 20V 5A
Q606 0.2W 50V 0.1A
C633 50V 0.01uF
R630 10kΩ
R646 150kΩ
C625 25V 0.47uF
MC602
Vin Iin BIAS +S OVP ON/OFF GATE GND
D605 600V 1A
R619 10Ω
R622 10Ω
MC605
OUT PFC ON RR RM IN Multi ON Timing Cap GND PFC ON/OFF
C609 100uF 25V
C612 47uF 25V
C613 50V 0.01uF
C614 56uF 50V
CN01
TO CN08

P-BOARD ETXMM584MEK (3/3)

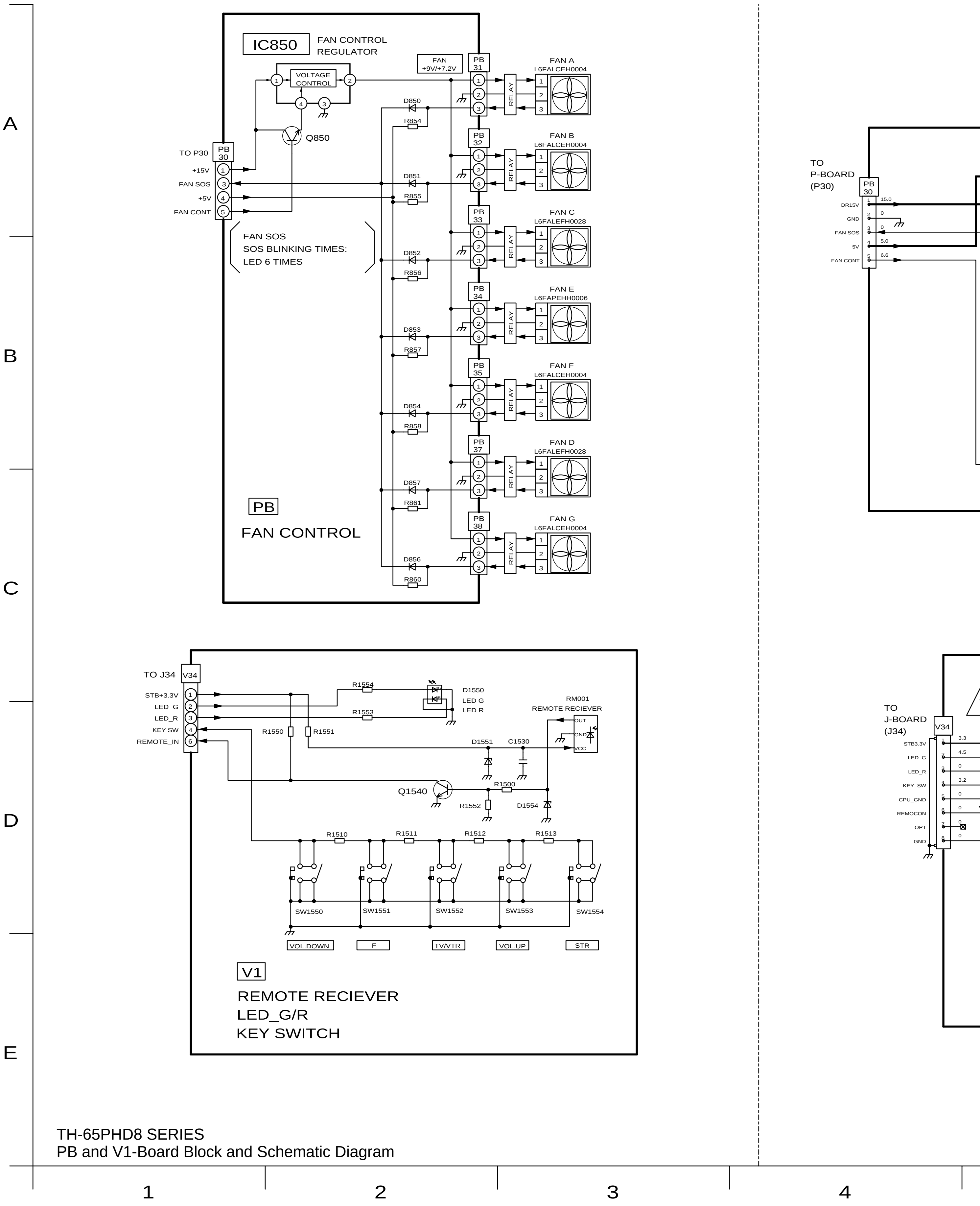
TH-65PHD8 SERIES
P-Board (3 of 3) Schematic Diagram


C362
2kV 220pF
C363
2kV 220pF
R358
15Ω
R356
120kΩ
R373
120kΩ
R398
120kΩ
R359
120kΩ
R374
120kΩ
R399
120kΩ
F603
5A
C341
1kV0.0033uF
R340
47kΩ
R341
47kΩ
D335
0.4A
R339
33Ω
D332
30V 1A
R346
22Ω
R326
10kΩ
L301
7A
R347
22Ω
R327
10kΩ
L302
7A
ZD301
OPEN
ZD302
OPEN
MC301
P1
P2
S1
S2
D1
D2
G1
G2
A1
K1
A2
K2
R352
31.6kΩ
R353
31.6kΩ
R350
31.6kΩ
R351
31.6kΩ
C360
220V900uF
C361
220V900uF
R364
68kΩ
C356
250V 0.1uF
C369
250V 0.1uF
VR351
100kΩ0.3W
R368
36.5kΩ
R369
82kΩ
180V
TO
SC-BOARD
(SC2)
P2
TO
SS-BOARD
(SS11)
P11
Vsus
GND
TO
CN06
CN02
Vs_OUT
Vs_OHP
Vs_GND
Vs_GND
5Vc
5Vc
PFC-ON
NC
Vs-STOP
HV-ON
HOT
COLD
C364
2kV 220pF
C365
2kV 220pF
R360
15Ω
R357
120kΩ
R375
120kΩ
R320
120kΩ
R361
120kΩ
R376
120kΩ
R397
120kΩ
F604
250V 5A
D337
1kV 0.4A
Q332
2W 20V 5A
Q333
2W 20V 5A
R344
33Ω
D334
30V 1A
R349
22Ω
R328
10kΩ
L303
7A
R330
22Ω
R329
10kΩ
L304
7A
ZD303
OPEN
ZD304
OPEN
MC302
R386
237kΩ
R387
237kΩ
R388
237kΩ
R389
237kΩ
R390
237kΩ
R391
237kΩ
R336
100Ω
R325
33kΩ
R321
0.33Ω
R322
0.33Ω
R323
0.33Ω
R342
200Ω
C366
OPEN
TH301
25deg C 470Ω
C353
220V900uF
C367
220V900uF
R366
6.8kΩ
R370
82kΩ
R367
6.8kΩ
R371
82kΩ
D375
0.1W 0Ω
C359
25V 47uF
C370
16V 1uF
C332
47uF 25V
MC303
GND
Vsens
PFC ON/OFF
VCC
Vout
ON/OFF
Isens
PFC-ON
Vs-Sens
5Vc
GND
Vs-STOP
HV-ON
TO
CN08
CN01
C628
250V100pF
C622
630V0.047uF
C624
450V220uF
C626
450V220uF
C630
450V220uF
C623
450V220uF
R613
150kΩ
R614
150kΩ
549kΩ
D605
600V 1A

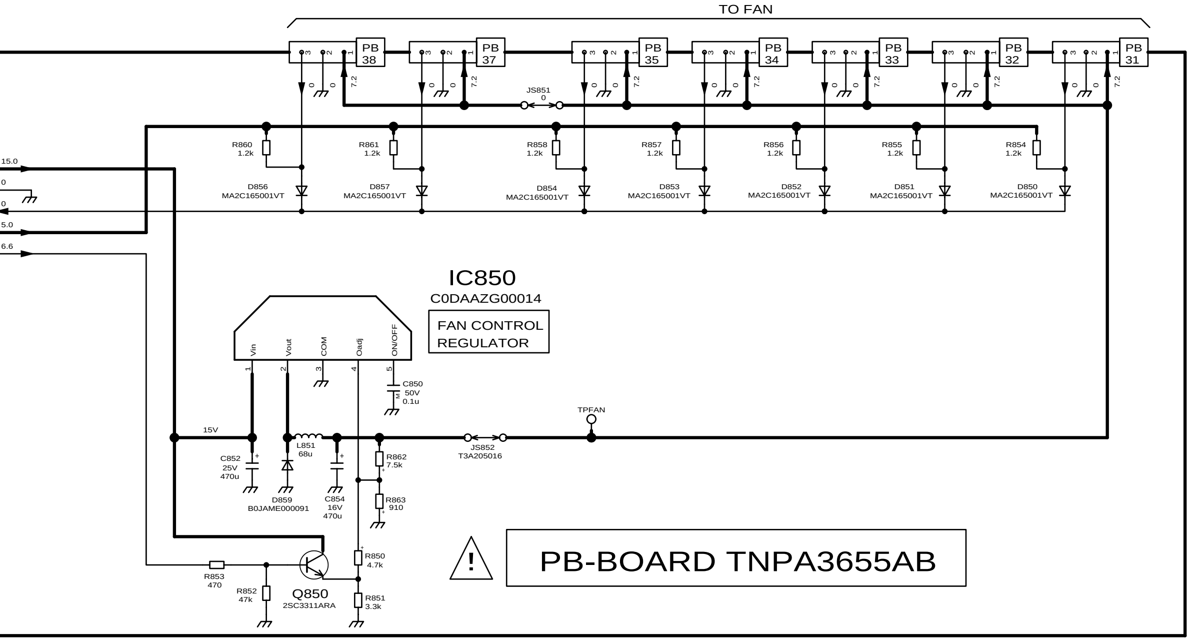
TH-65PHD8 SERIES
P-Board (3 of 3) Schematic Diagram

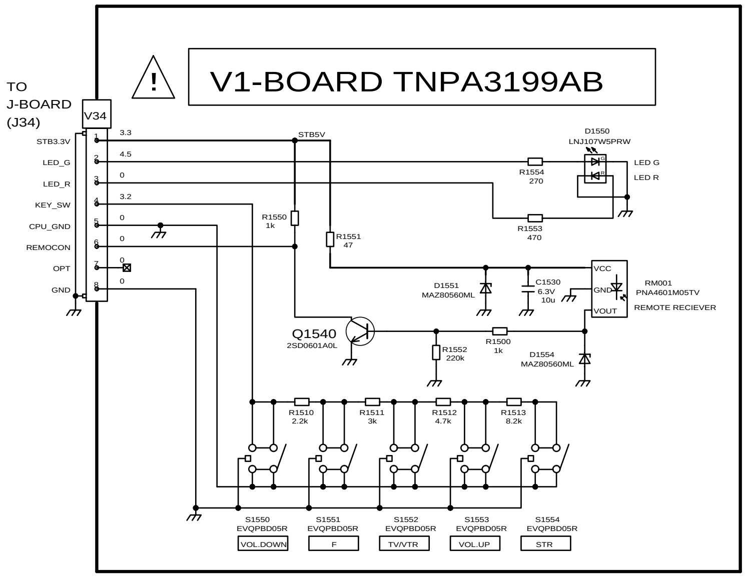
23	24	25	26	27

15.8. PB and V1-Board Block and Schematic Diagram

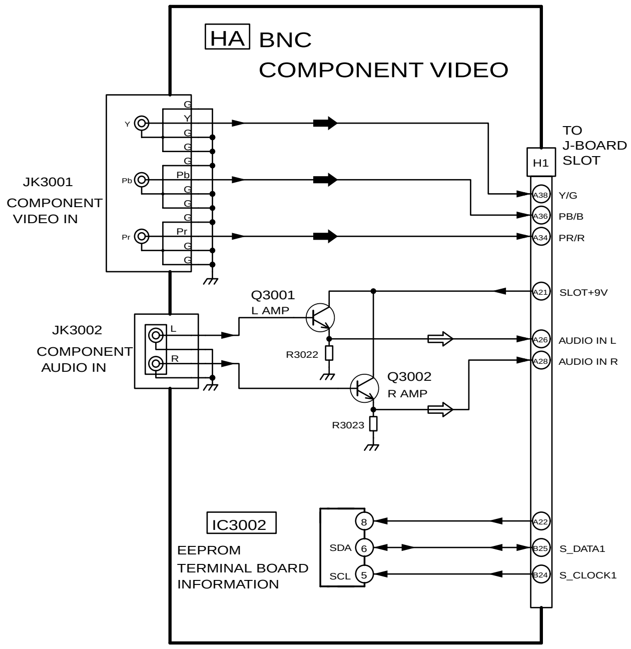

A
B
C
D
E
1
2
3
4
IC850
FAN CONTROL
REGULATOR
VOLTAGE
CONTROL
Q850
FAN
+9V/+7.2V
TO P30
PB
30
+15V
FAN SOS
+5V
FAN CONT
FAN SOS
SOS BLINKING TIMES:
LED 6 TIMES
D850
R854
D851
R855
D852
R856
D853
R857
D854
R858
D857
R861
D856
R860
PB
31
PB
32
PB
33
PB
34
PB
35
PB
37
PB
38
RELAY
FAN A
L6FALCEH0004
FAN B
L6FALCEH0004
FAN C
L6FALEFH0028
FAN E
L6FAPEHH0006
FAN F
L6FALCEH0004
FAN D
L6FALEFH0028
FAN G
L6FALCEH0004
PB
FAN CONTROL
TO
P-BOARD
(P30)
DR15V
GND
FAN SOS
5V
FAN CONT
15.0
0
0
5.0
6.6
TO J34
V34
STB+3.3V
LED_G
LED_R
KEY SW
REMOTE_IN
R1554
R1553
D1550
LED G
LED R
RM001
REMOTE RECIEVER
OUT
GND
VCC
R1550
R1551
D1551
C1530
Q1540
R1500
R1552
D1554
R1510
R1511
R1512
R1513
SW1550
SW1551
SW1552
SW1553
SW1554
VOL.DOWN
F
TV/VTR
VOL.UP
STR
V1
REMOTE RECIEVER
LED_G/R
KEY SWITCH
TO
J-BOARD
(J34)
V34
STB3.3V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
3.3
4.5
0
3.2
0
0
0
0

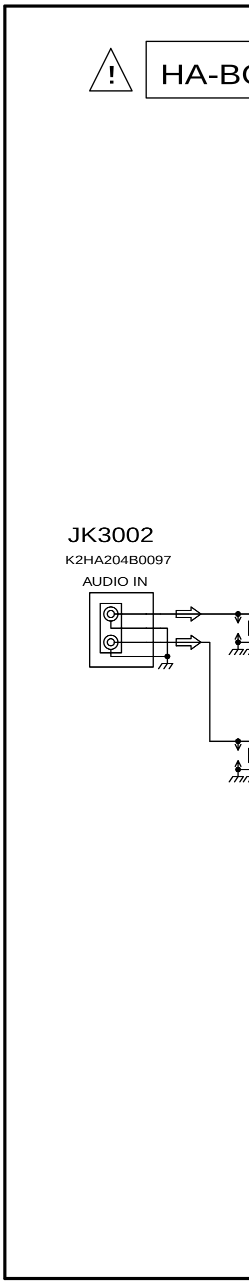
TH-65PHD8 SERIES
PB and V1-Board Block and Schematic Diagram

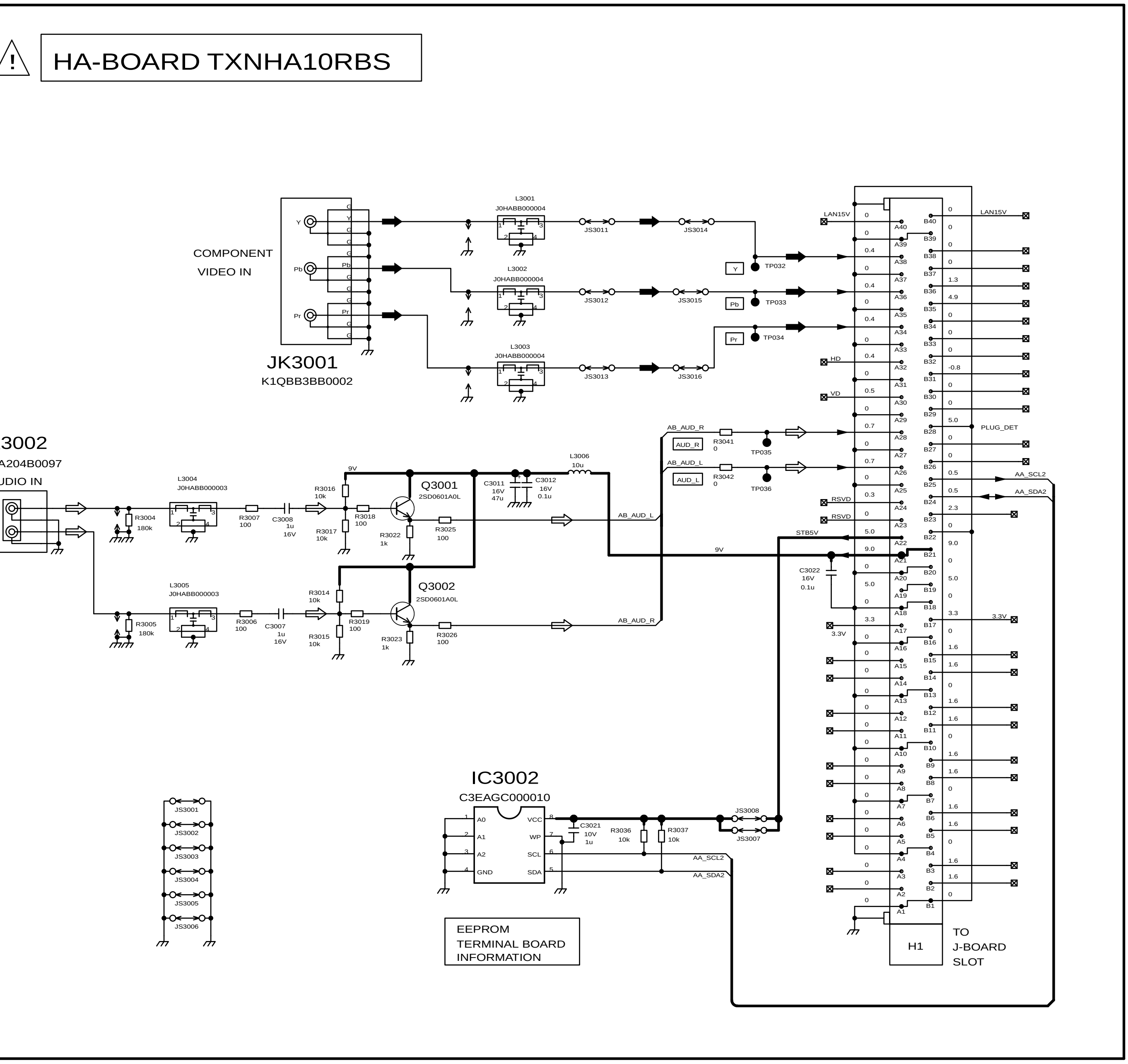

TO FAN
PB 38
PB 37
PB 35
PB 34
PB 33
PB 32
PB 31
3 2 1
0 0 7.2
JS851
0
R860 1.2k
R861 1.2k
R858 1.2k
R857 1.2k
R856 1.2k
R855 1.2k
R854 1.2k
D856 MA2C165001VT
D857 MA2C165001VT
D854 MA2C165001VT
D853 MA2C165001VT
D852 MA2C165001VT
D851 MA2C165001VT
D850 MA2C165001VT
15.0
0
15.0
6.6
IC850
C0DAAZG00014
FAN CONTROL REGULATOR
Vin
Vout
COM
Oadj
ON/OFF
1 2 3 4 5
C850 50V 0.1u
TPFAN
15V
C852 25V 470u
L851 68u
D859 B0JAME000091
C854 16V 470u
R862 7.5k
R863 910
JS852 T3A205016
R853 470
R852 47k
Q850 2SC3311ARA
R850 4.7k
R851 3.3k
PB-BOARD TNPA3655AB


V1-BOARD TNPA3199AB
TO J-BOARD (J34)
V34
STB3.3V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
1 2 3 4 5 6 7 8
3.3
4.5
0
3.2
0
0
0
0
STB5V
D1550 LNJ107W5PRW
R1554 270
LED G
LED R
R1553 470
R1550 1k
R1551 47
D1551 MAZ80560ML
C1530 6.3V 10u
VCC
GND
VOUT
RM001 PNA4601M05TV
REMOTE RECIEVER
Q1540 2SD0601A0L
R1552 220k
R1500 1k
D1554 MAZ80560ML
R1510 2.2k
R1511 3k
R1512 4.7k
R1513 8.2k
S1550 EVQPBD05R
S1551 EVQPBD05R
S1552 EVQPBD05R
S1553 EVQPBD05R
S1554 EVQPBD05R
VOL.DOWN
F
TV/VTR
VOL.UP
STR

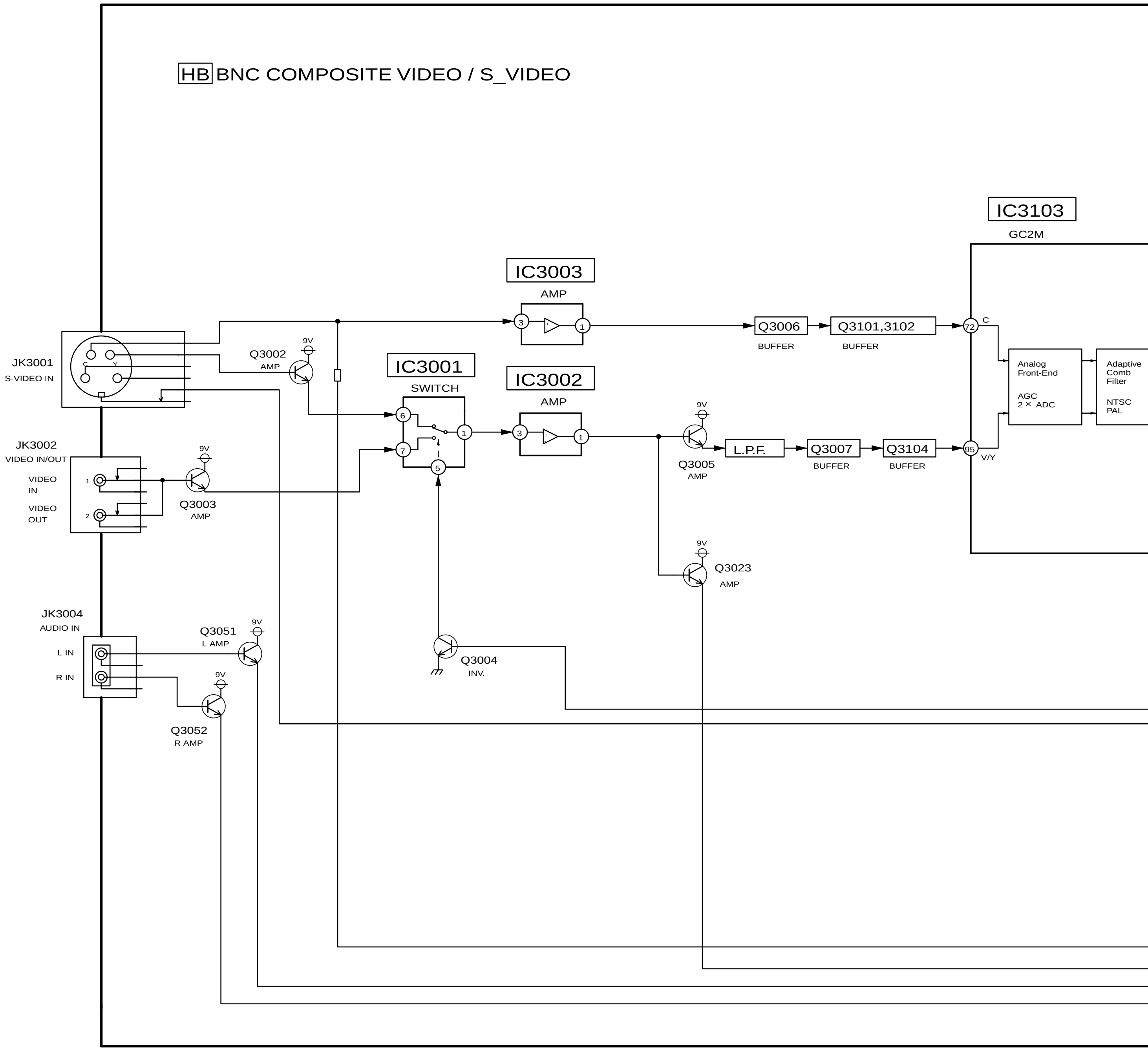
15.9. HA-Board Block and Schematic Diagram

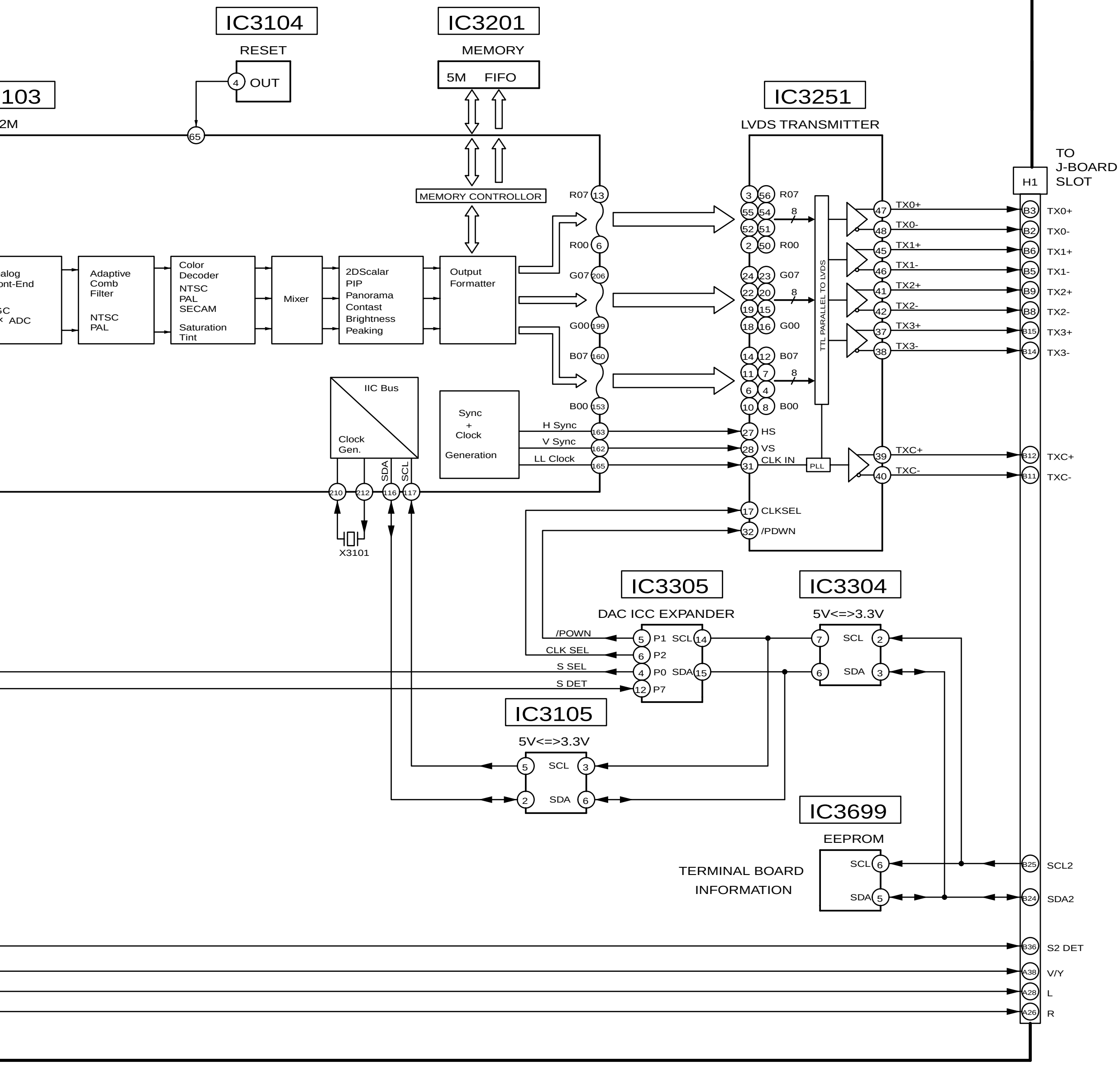

HA
BNC
COMPONENT VIDEO
JK3001
COMPONENT
VIDEO IN
Y
Pb
Pr
G
Y
G
G
G
Pb
G
G
G
Pr
G
G
TO
J-BOARD
SLOT
H1
A38
Y/G
A36
PB/B
A34
PR/R
A21
SLOT+9V
JK3002
COMPONENT
AUDIO IN
L
R
Q3001
L AMP
R3022
Q3002
R AMP
R3023
A26
AUDIO IN L
A28
AUDIO IN R
IC3002
EEPROM
TERMINAL BOARD
INFORMATION
8
SDA
6
SCL
5
A22
B25
S_DATA1
B24
S_CLOCK1


HA-BO
JK3002
K2HA204B0097
AUDIO IN


HA-BOARD TXNHA10RBS
COMPONENT
VIDEO IN
JK3001
K1QBB3BB0002
Y
Pb
Pr
L3001
J0HABB000004
L3002
J0HABB000004
L3003
J0HABB000004
JS3011
JS3012
JS3013
JS3014
JS3015
JS3016
TP032
TP033
TP034
3002
A204B0097
UDIO IN
L3004
J0HABB000003
L3005
J0HABB000003
R3004
180k
R3005
180k
R3007
100
R3006
100
C3008
1u
16V
C3007
1u
16V
R3016
10k
R3017
10k
R3018
100
R3014
10k
R3015
10k
R3019
100
R3022
1k
R3023
1k
R3025
100
R3026
100
9V
Q3001
2SD0601A0L
Q3002
2SD0601A0L
C3011
16V
47u
C3012
16V
0.1u
L3006
10u
AB_AUD_L
AB_AUD_R
AUD_R
AUD_L
R3041
0
R3042
0
TP035
TP036
LAN15V
HD
VD
RSVD
STB5V
C3022
16V
0.1u
3.3V
PLUG_DET
AA_SCL2
AA_SDA2
IC3002
C3EAGC000010
A0
A1
A2
GND
VCC
WP
SCL
SDA
C3021
10V
1u
R3036
10k
R3037
10k
JS3008
JS3007
EEPROM
TERMINAL BOARD
INFORMATION
JS3001
JS3002
JS3003
JS3004
JS3005
JS3006
H1
TO
J-BOARD
SLOT

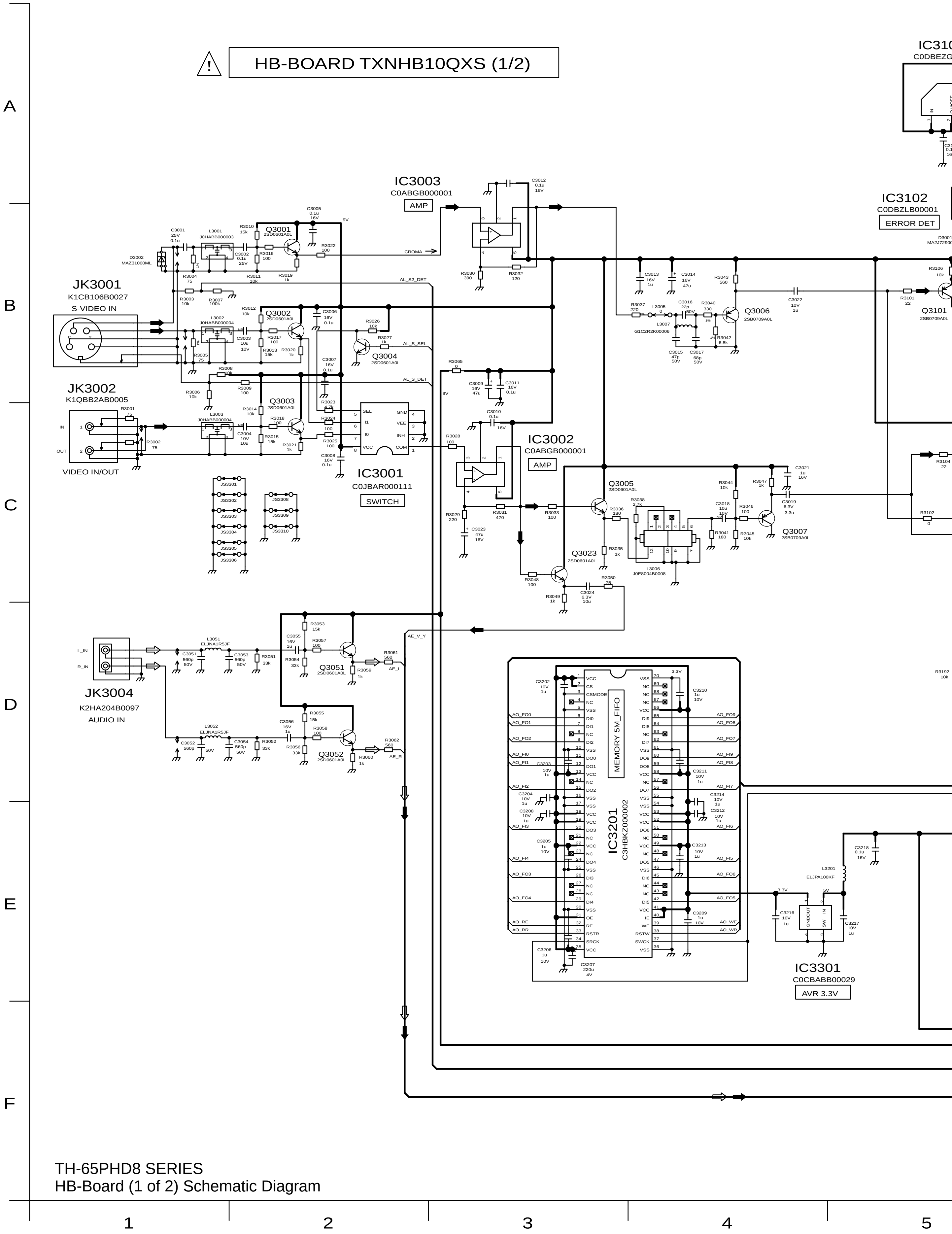
15.10. HB-Board Block Diagram


HB BNC COMPOSITE VIDEO / S_VIDEO
JK3001
S-VIDEO IN
C
Y
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
1
2
JK3004
AUDIO IN
L IN
R IN
Q3002
AMP
9V
Q3003
AMP
9V
Q3051
L AMP
9V
Q3052
R AMP
9V
IC3003
AMP
3
1
IC3001
SWITCH
6
7
5
1
IC3002
AMP
3
1
Q3004
INV.
Q3005
AMP
9V
Q3023
AMP
9V
Q3006
BUFFER
Q3101,3102
BUFFER
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
IC3103
GC2M
72
C
95
V/Y
Analog
Front-End
AGC
2 × ADC
Adaptive
Comb
Filter
NTSC
PAL

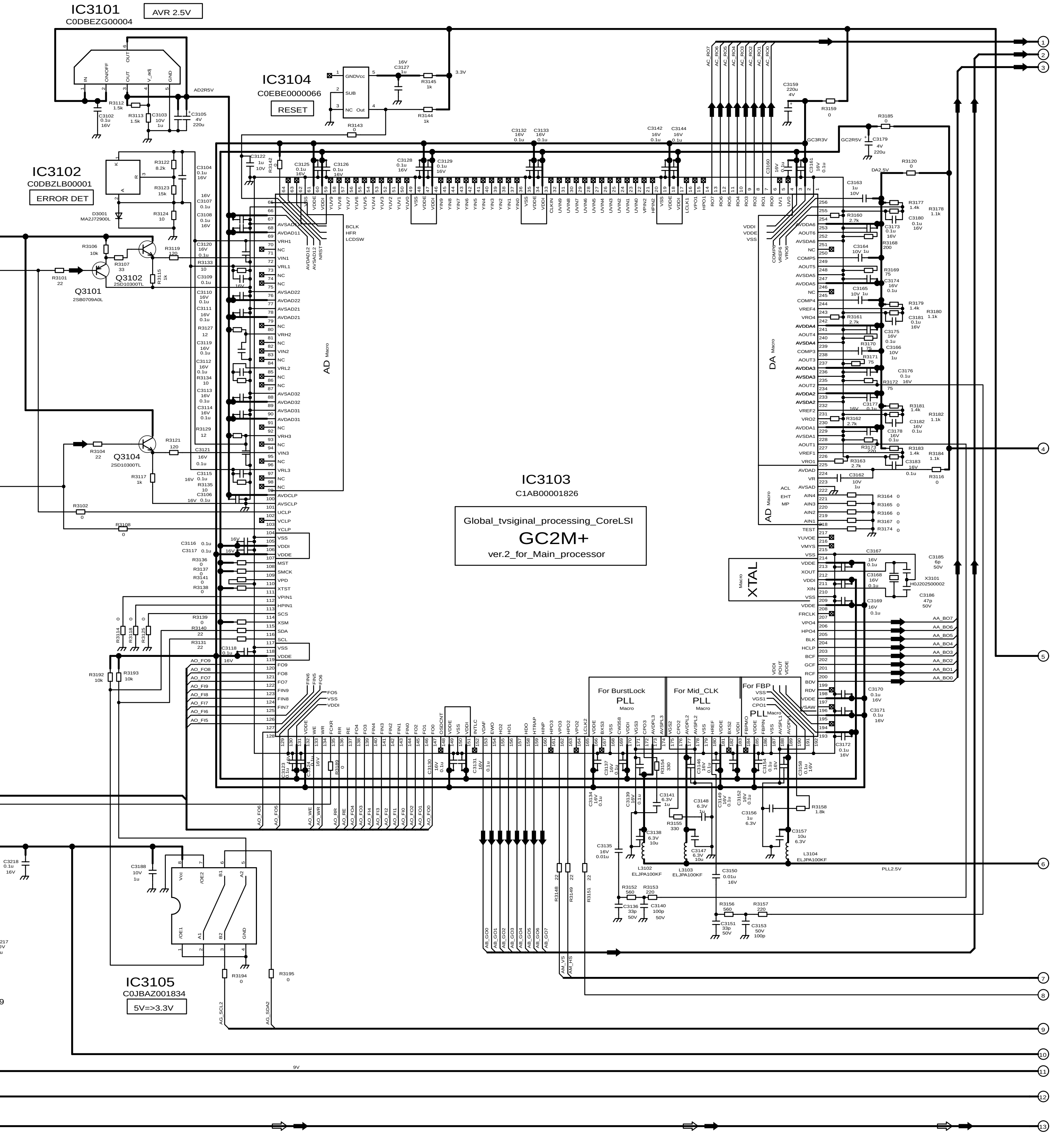

IC3104
RESET
4 OUT
IC3201
MEMORY
5M FIFO
103
2M
65
MEMORY CONTROLLOR
IC3251
LVDS TRANSMITTER
TO J-BOARD SLOT
H1
alog
ont-End
C
ADC
Adaptive Comb Filter
NTSC PAL
Color Decoder
NTSC PAL SECAM
Saturation Tint
Mixer
2DScalar PIP Panorama Contast Brightness Peaking
Output Formatter
R07 13
R00 6
G07 206
G00 199
B07 160
B00 153
IIC Bus
Clock Gen.
SDA
SCL
210
212
116
117
X3101
Sync + Clock Generation
H Sync 163
V Sync 162
LL Clock 165
R07
R00
G07
G00
B07
B00
8
TTL PARALLEL TO LVDS
PLL
HS
VS
CLK IN
17 CLKSEL
32 /PDWN
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
B3 TX0+
B2 TX0-
B6 TX1+
B5 TX1-
B9 TX2+
B8 TX2-
B15 TX3+
B14 TX3-
B12 TXC+
B11 TXC-
IC3305
DAC ICC EXPANDER
/POWN
CLK SEL
S SEL
S DET
P1
P2
P0
P7
SCL 14
SDA 15
IC3304
5V<=>3.3V
SCL
SDA
IC3105
5V<=>3.3V
SCL
SDA
IC3699
EEPROM
TERMINAL BOARD INFORMATION
SCL 6
SDA 5
B25 SCL2
B24 SDA2
B36 S2 DET
A38 V/Y
A28 L
A26 R

TH-65PHD8 SERIES
HB-Board Block Diagram

15.11. HB-Board (1 of 2) Schematic Diagram

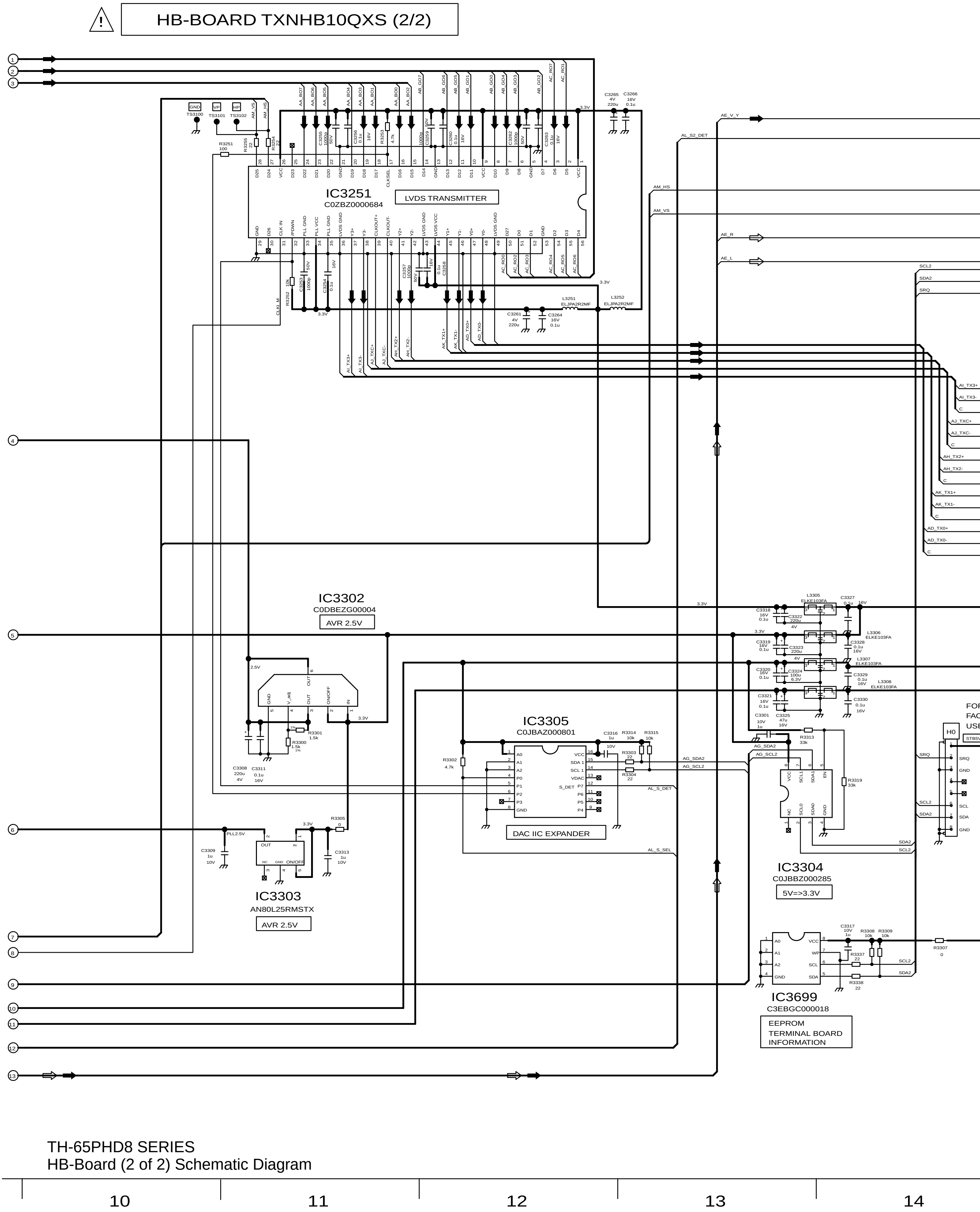

HB-BOARD TXNHB10QXS (1/2)
A
B
C
D
E
F
1
2
3
4
5
IC3003
C0ABGB000001
AMP
IC3002
C0ABGB000001
AMP
IC3001
C0JBAR000111
SWITCH
IC3102
C0DBZLB00001
ERROR DET
IC3201
C3HBKZ000002
MEMORY 5M_FIFO
IC3301
C0CBABB00029
AVR 3.3V
JK3001
K1CB106B0027
S-VIDEO IN
JK3002
K1QBB2AB0005
VIDEO IN/OUT
JK3004
K2HA204B0097
AUDIO IN
Q3001
2SD0601A0L
Q3002
2SD0601A0L
Q3003
2SD0601A0L
Q3004
2SD0601A0L
Q3005
2SD0601A0L
Q3006
2SB0709A0L
Q3007
2SB0709A0L
Q3023
2SD0601A0L
Q3051
2SD0601A0L
Q3052
2SD0601A0L
Q3101
2SB0709A0L
D3002
MAZ31000ML
L3001
J0HABB000003
L3002
J0HABB000004
L3003
J0HABB000004
L3006
J0E8004B0008
L3007
G1C2R2K00006
L3051
ELJNA1R5JF
L3052
ELJNA1R5JF
L3201
ELJPA100KF
CROMA
AL_S2_DET
AL_S_SEL
AL_S_DET
AE_V_Y
AE_L
AE_R
L_IN
R_IN
IN
OUT
9V
3.3V
5V
SEL
GND
I1
VEE
I0
INH
VCC
COM
JS3301
JS3302
JS3303
JS3304
JS3305
JS3306
JS3308
JS3309
JS3310
AO_FO0
AO_FO1
AO_FO2
AO_FI0
AO_FI1
AO_FI2
AO_FI3
AO_FI4
AO_FO3
AO_FO4
AO_RE
AO_RR
AO_FO9
AO_FO8
AO_FO7
AO_FI9
AO_FI8
AO_FI7
AO_FI6
AO_FI5
AO_FO6
AO_FO5
AO_WE
AO_WR

TH-65PHD8 SERIES
HB-Board (1 of 2) Schematic Diagram

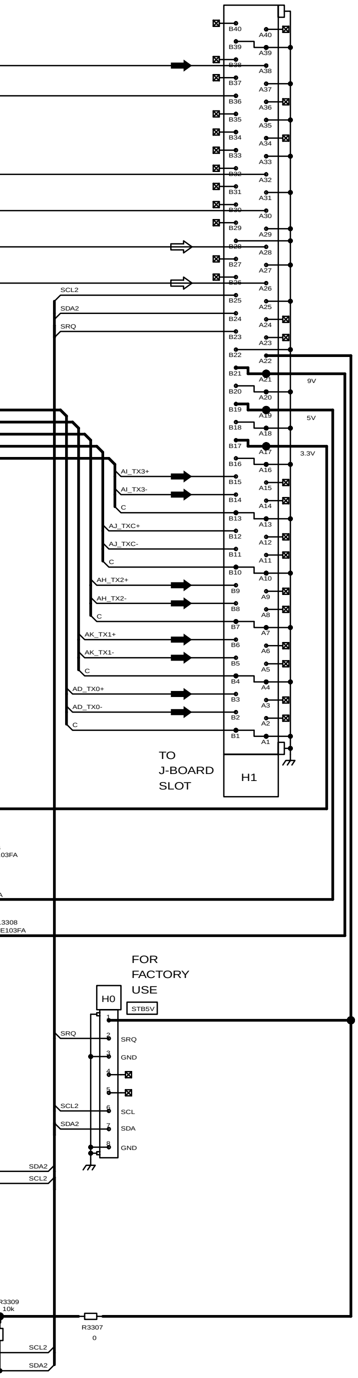

IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
Q3101
2SB0709A0L
Q3102
2SD10300TL
Q3104
2SD10300TL
IC3103
C1AB00001826
Global_tvsiginal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
AD Macro
DA Macro
XTAL Macro
For BurstLock
PLL Macro
For Mid_CLK
PLL Macro
For FBP
PLL Macro
IC3105
C0JBAZ001834
5V=>3.3V
L3102 ELJPA100KF
L3103 ELJPA100KF
L3104 ELJPA100KF
X3101 H0J202500002
AD2R5V
DA2.5V
GC3R3V
GC2R5V
PLL2.5V
3.3V
9V
AG_SCL2
AG_SDA2
AM_VS
AM_HS
1
2
3
4
5
6
7
8
9
10
11
12
13

TH-65PHD8 SERIES
HB-Board (1 of 2) Schematic Diagram

15.12. HB-Board (2 of 2) Schematic Diagram


HB-BOARD TXNHB10QXS (2/2)
IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3303
AN80L25RMSTX
AVR 2.5V
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3304
C0JBBZ000285
5V=>3.3V
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
TS3100
TS3101
TS3102
GND
VP
HP
AM_VS
AM_HS
AE_V_Y
AL_S2_DET
AE_R
AE_L
SCL2
SDA2
SRQ
AI_TX3+
AI_TX3-
AJ_TXC+
AJ_TXC-
AH_TX2+
AH_TX2-
AK_TX1+
AK_TX1-
AD_TX0+
AD_TX0-
AG_SDA2
AG_SCL2
AL_S_DET
AL_S_SEL
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
L3305
L3306
L3307
L3308
ELKE103FA
3.3V
2.5V
PLL2.5V
H0
10
11
12
13
14

TH-65PHD8 SERIES
HB-Board (2 of 2) Schematic Diagram


SCL2
SDA2
SRQ
AI_TX3+
AI_TX3-
C
AJ_TXC+
AJ_TXC-
C
AH_TX2+
AH_TX2-
C
AK_TX1+
AK_TX1-
C
AD_TX0+
AD_TX0-
C
9V
5V
3.3V
TO
J-BOARD
SLOT
H1
FOR
FACTORY
USE
H0
STB5V
SRQ
GND
SCL
SDA
GND
SRQ
SCL2
SDA2
SDA2
SCL2
R3307
0
SCL2
SDA2

TH-65PHD8 SERIES
HB-Board (2 of 2) Schematic Diagram

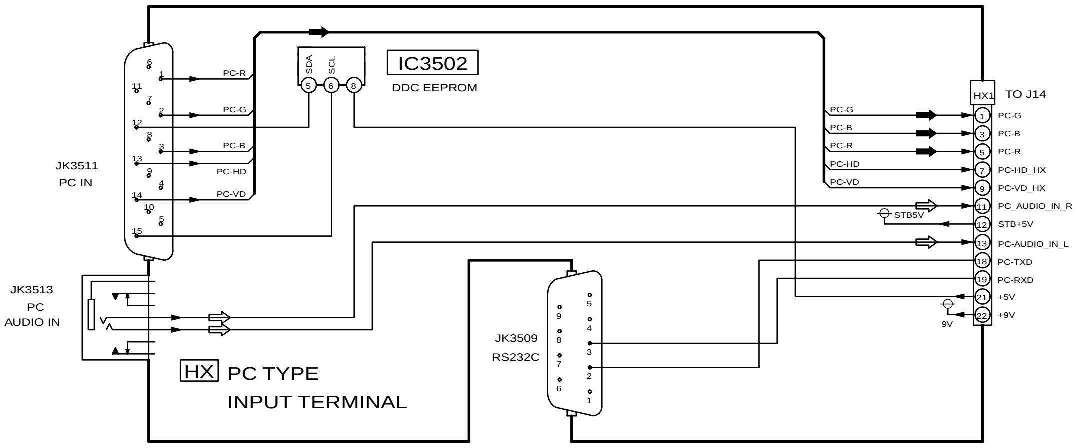
14 15 16 17 18

15.13. HX-Board Block and Schematic Diagram

A

B

C

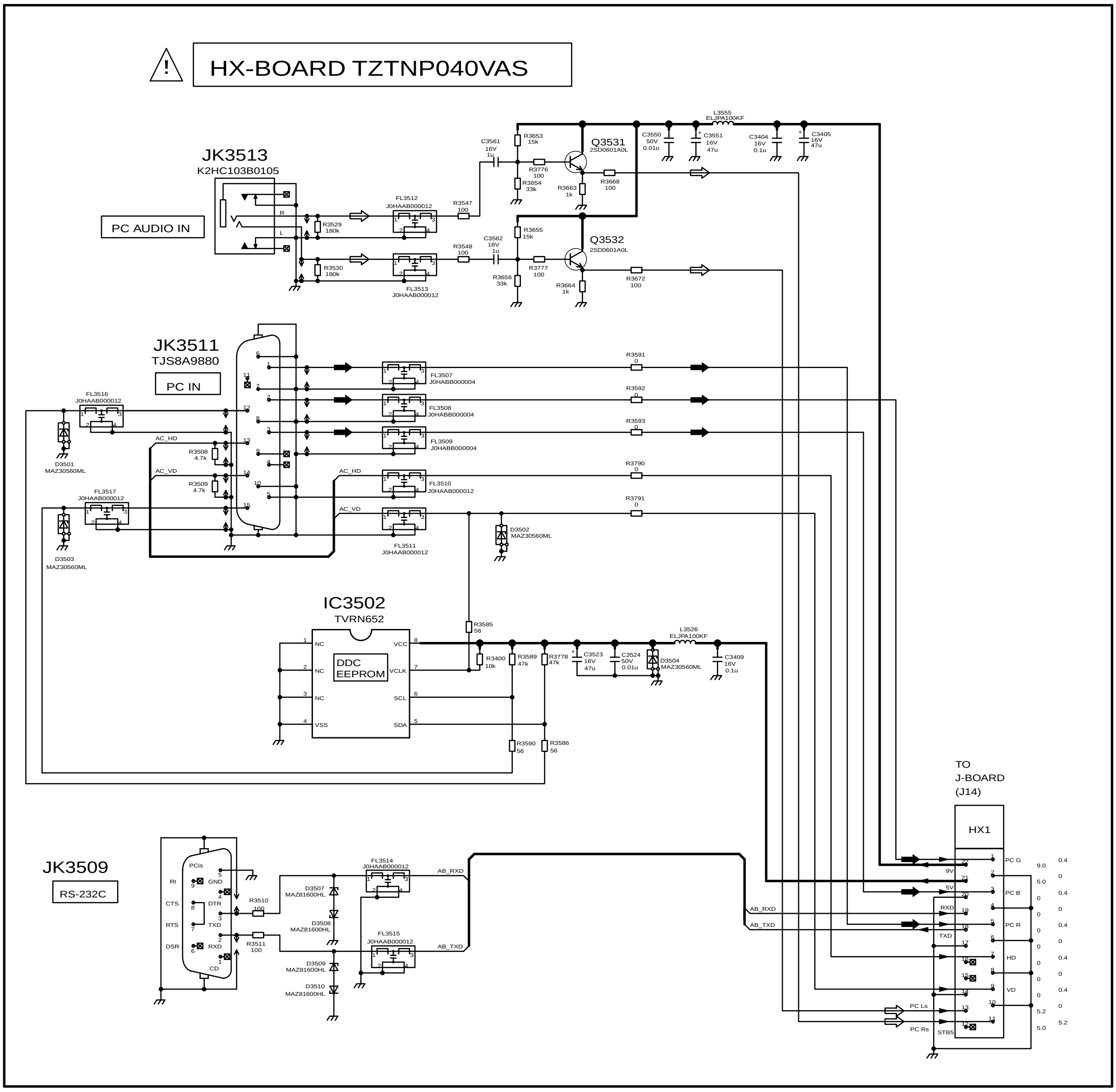

IC3502
DDC EEPROM
SDA
SCL
5
6
8
JK3511
PC IN
PC-R
PC-G
PC-B
PC-HD
PC-VD
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
JK3513
PC
AUDIO IN
JK3509
RS232C
HX
PC TYPE
INPUT TERMINAL
HX1
TO J14
1 PC-G
3 PC-B
5 PC-R
7 PC-HD_HX
9 PC-VD_HX
11 PC_AUDIO_IN_R
12 STB+5V
13 PC-AUDIO_IN_L
18 PC-TXD
19 PC-RXD
21 +5V
22 +9V
STB5V
9V

D

E

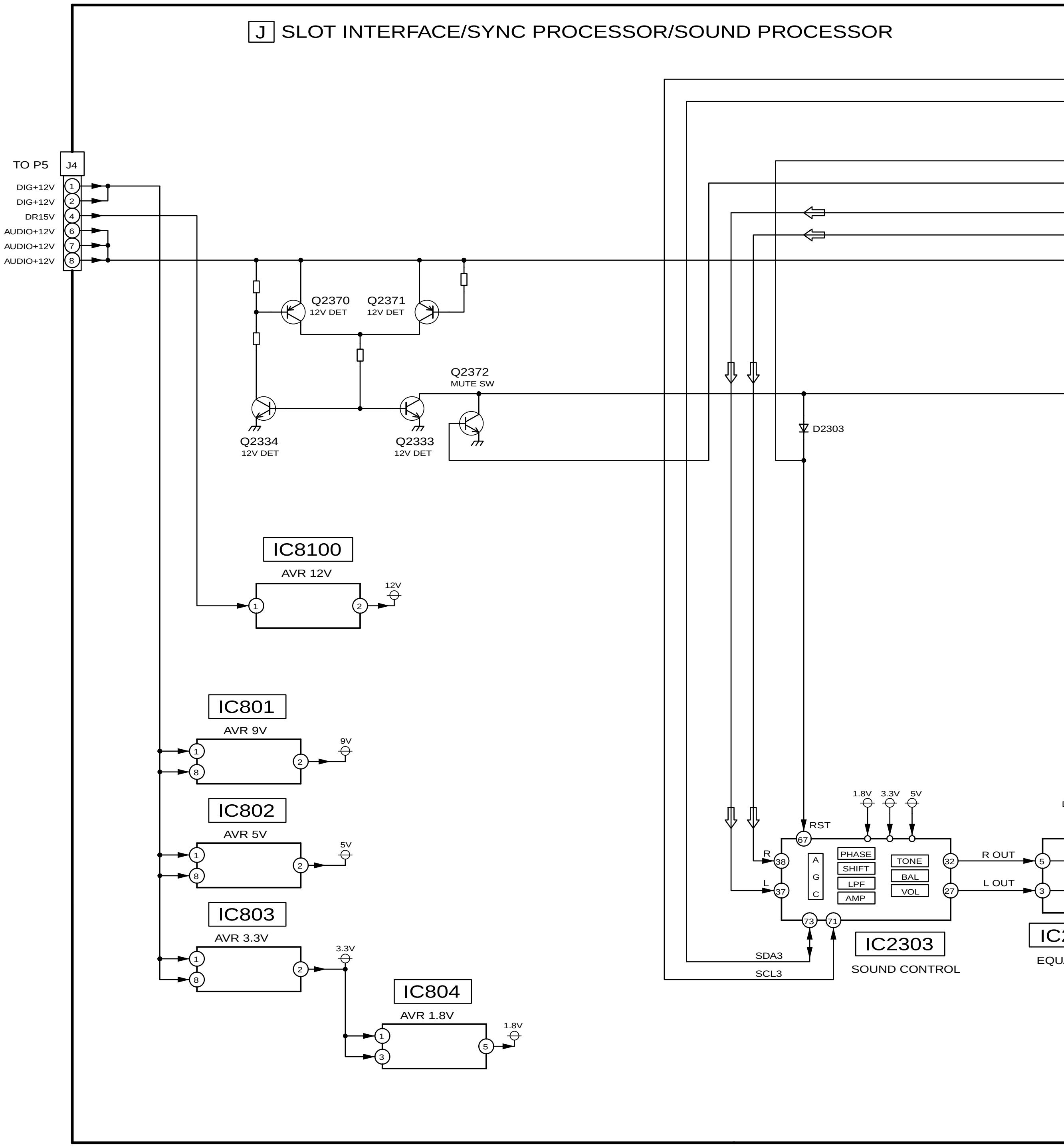
F

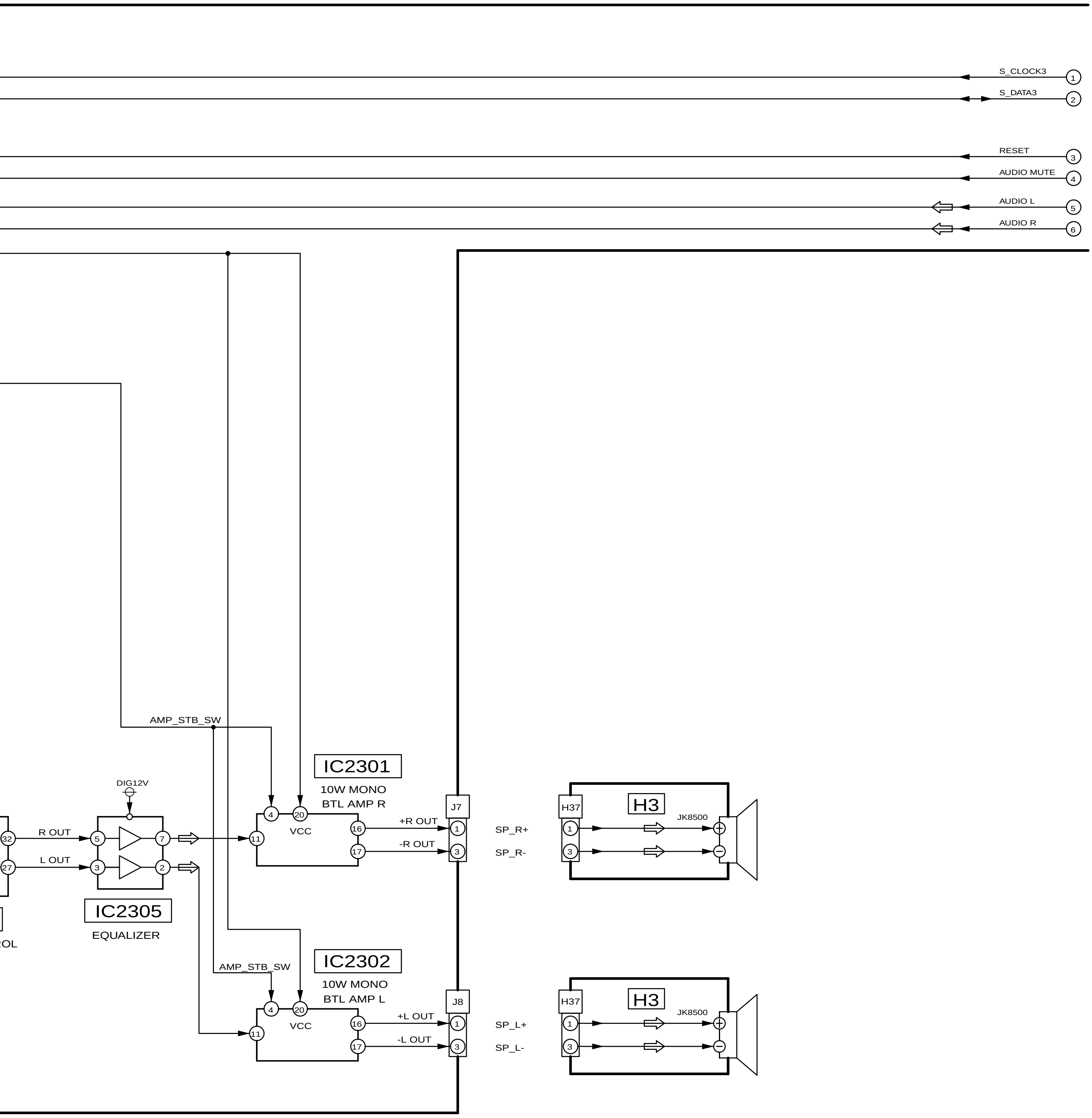
1 2 3 4 5


HX-BOARD TZTNP040VAS
JK3513
K2HC103B0105
PC AUDIO IN
R3529 180k
R3530 180k
FL3512 J0HAAB000012
FL3513 J0HAAB000012
R3547 100
R3548 100
C3561 16V 1u
C3562 16V 1u
R3653 15k
R3654 33k
R3655 15k
R3656 33k
R3776 100
R3777 100
R3663 1k
R3664 1k
R3668 100
R3672 100
Q3531 2SD0601A0L
Q3532 2SD0601A0L
C3550 50V 0.01u
C3551 16V 47u
L3555 ELJPA100KF
C3404 16V 0.1u
C3405 16V 47u
JK3511
TJS8A9880
PC IN
FL3516 J0HAAB000012
FL3517 J0HAAB000012
D3501 MAZ30560ML
D3503 MAZ30560ML
AC_HD
AC_VD
R3508 4.7k
R3509 4.7k
FL3507 J0HABB000004
FL3508 J0HABB000004
FL3509 J0HABB000004
FL3510 J0HAAB000012
FL3511 J0HAAB000012
R3591 0
R3592 0
R3593 0
R3790 0
R3791 0
D3502 MAZ30560ML
IC3502
TVRN652
DDC EEPROM
NC
NC
NC
VSS
VCC
VCLK
SCL
SDA
R3585 56
R3400 10k
R3589 47k
R3778 47k
C3523 16V 47u
C3524 50V 0.01u
D3504 MAZ30560ML
L3526 ELJPA100KF
C3409 16V 0.1u
R3590 56
R3586 56
JK3509
RS-232C
PCis
RI
CTS
RTS
DSR
GND
DTR
TXD
RXD
CD
R3510 100
R3511 100
D3507 MAZ81600HL
D3508 MAZ81600HL
D3509 MAZ81600HL
D3510 MAZ81600HL
FL3514 J0HAAB000012
FL3515 J0HAAB000012
AB_RXD
AB_TXD
TO J-BOARD (J14)
HX1
9V
5V
RXD
TXD
PC Ls
PC Rs
STB5
PC G
PC B
PC R
HD
VD
9.0
5.0
0.4
0
5.2

TH-65PHD8 SERIES
HX-Board Block and Schematic Diagram

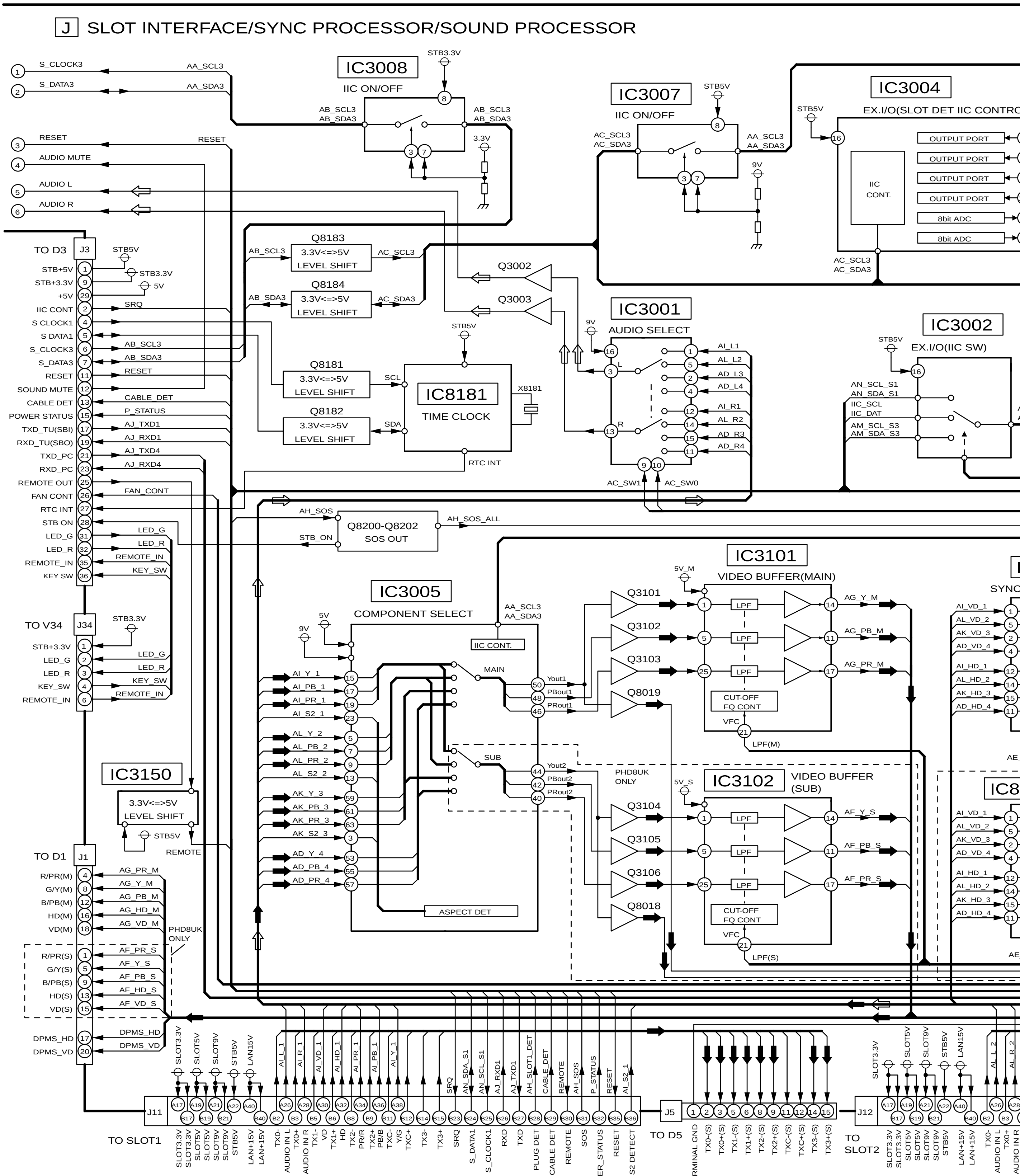
15.14. J-Board (1 of 2) and H3-Board Block Diagram


J
SLOT INTERFACE/SYNC PROCESSOR/SOUND PROCESSOR
TO P5
J4
DIG+12V
DIG+12V
DR15V
AUDIO+12V
AUDIO+12V
AUDIO+12V
1
2
4
6
7
8
Q2370
12V DET
Q2371
12V DET
Q2372
MUTE SW
Q2334
12V DET
Q2333
12V DET
D2303
IC8100
AVR 12V
12V
IC801
AVR 9V
9V
IC802
AVR 5V
5V
IC803
AVR 3.3V
3.3V
IC804
AVR 1.8V
1.8V
1.8V
3.3V
5V
RST
67
R
38
L
37
A
G
C
PHASE
SHIFT
LPF
AMP
TONE
BAL
VOL
32
27
R OUT
L OUT
73
71
SDA3
SCL3
IC2303
SOUND CONTROL
5
3
IC
EQU

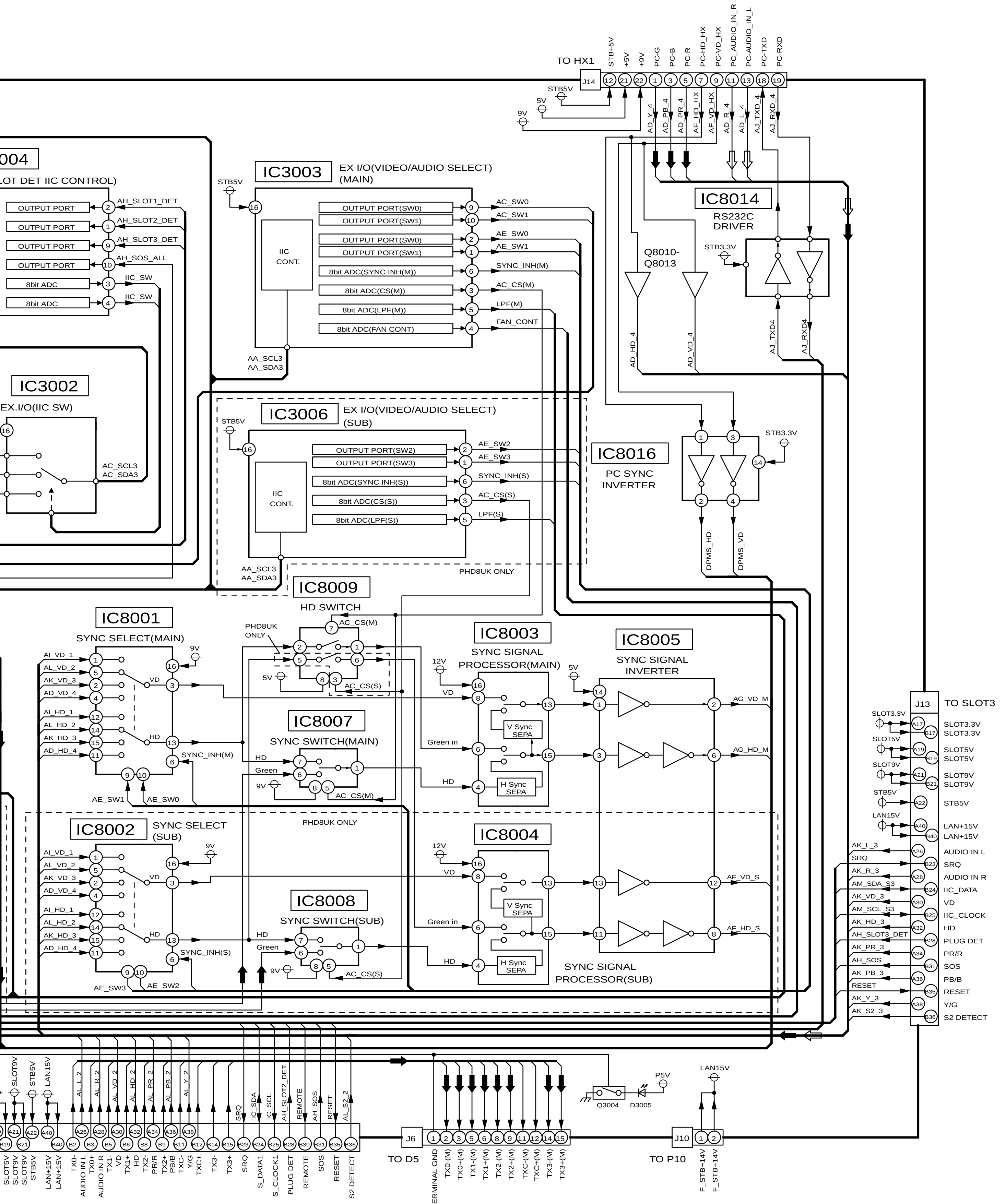

S_CLOCK3
1
S_DATA3
2
RESET
3
AUDIO MUTE
4
AUDIO L
5
AUDIO R
6
AMP_STB_SW
DIG12V
R OUT
L OUT
32
27
5
3
7
2
IC2305
EQUALIZER
IC2301
10W MONO
BTL AMP R
4
20
11
VCC
16
17
+R OUT
-R OUT
J7
1
3
SP_R+
SP_R-
H37
H3
JK8500
AMP_STB_SW
IC2302
10W MONO
BTL AMP L
4
20
11
VCC
16
17
+L OUT
-L OUT
J8
1
3
SP_L+
SP_L-
H37
H3
JK8500

TH-65PHD8 SERIES
J-Board (1 of 2) and H3-Board Block Diagram

15.15. J-Board (2 of 2) Block Diagram

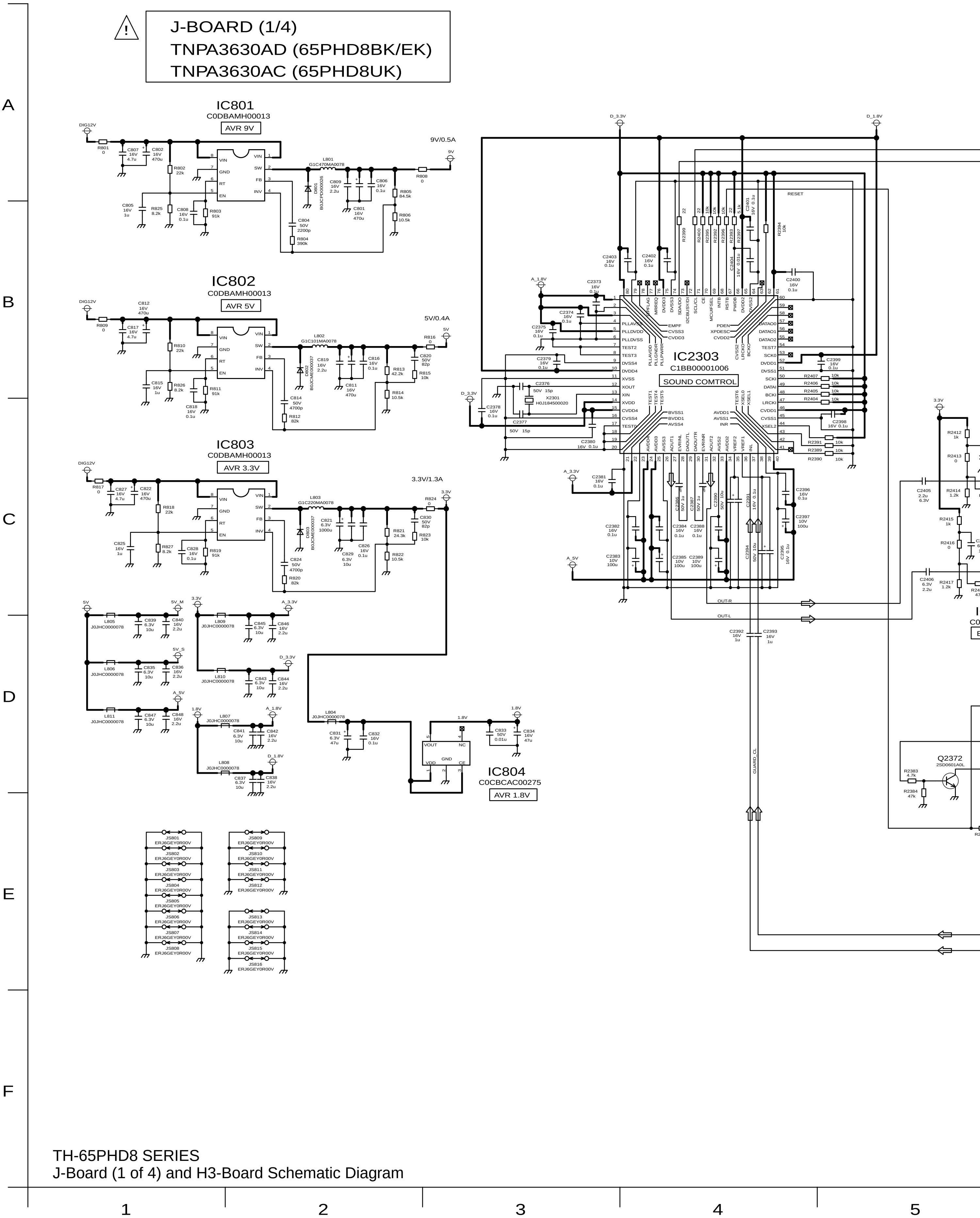

J SLOT INTERFACE/SYNC PROCESSOR/SOUND PROCESSOR
IC3008
IIC ON/OFF
IC3007
IIC ON/OFF
IC3004
EX.I/O(SLOT DET IIC CONTRO
OUTPUT PORT
8bit ADC
IIC CONT.
Q8183
3.3V<=>5V LEVEL SHIFT
Q8184
Q3002
Q3003
IC3001
AUDIO SELECT
IC3002
EX.I/O(IIC SW)
Q8181
Q8182
IC8181
TIME CLOCK
X8181
RTC INT
Q8200-Q8202
SOS OUT
AH_SOS
AH_SOS_ALL
STB_ON
IC3101
VIDEO BUFFER(MAIN)
IC3005
COMPONENT SELECT
IIC CONT.
MAIN
SUB
ASPECT DET
Q3101
Q3102
Q3103
Q8019
LPF
CUT-OFF FQ CONT
VFC
LPF(M)
IC3102
VIDEO BUFFER (SUB)
PHD8UK ONLY
Q3104
Q3105
Q3106
Q8018
LPF(S)
IC3150
3.3V<=>5V LEVEL SHIFT
TO D3
J3
STB+5V
STB+3.3V
+5V
IIC CONT
S CLOCK1
S DATA1
S_CLOCK3
S_DATA3
RESET
SOUND MUTE
CABLE DET
POWER STATUS
TXD_TU(SBI)
RXD_TU(SBO)
TXD_PC
RXD_PC
REMOTE OUT
FAN CONT
RTC INT
STB ON
LED_G
LED_R
REMOTE_IN
KEY SW
TO V34
J34
TO D1
J1
R/PR(M)
G/Y(M)
B/PB(M)
HD(M)
VD(M)
R/PR(S)
G/Y(S)
B/PB(S)
HD(S)
VD(S)
DPMS_HD
DPMS_VD
S_CLOCK3
S_DATA3
AUDIO MUTE
AUDIO L
AUDIO R
J11
TO SLOT1
J5
TO D5
J12
TO SLOT2
SLOT3.3V
SLOT5V
SLOT9V
STB5V
LAN+15V
TX0-
AUDIO IN L
TX0+
AUDIO IN R
TX1-
VD
TX1+
HD
TX2-
PR/R
TX2+
PB/B
TXC-
Y/G
TXC+
TX3-
TX3+
SRQ
S_DATA1
S_CLOCK1
RXD
TXD
PLUG DET
CABLE DET
REMOTE
SOS
POWER_STATUS
RESET
S2 DETECT
TERMINAL GND
TX0-(S)
TX0+(S)
TX1-(S)
TX1+(S)
TX2-(S)
TX2+(S)
TXC-(S)
TXC+(S)
TX3-(S)
TX3+(S)

TH-65PHD8 SERIES
J-Board (2 of 2) Block Diagram

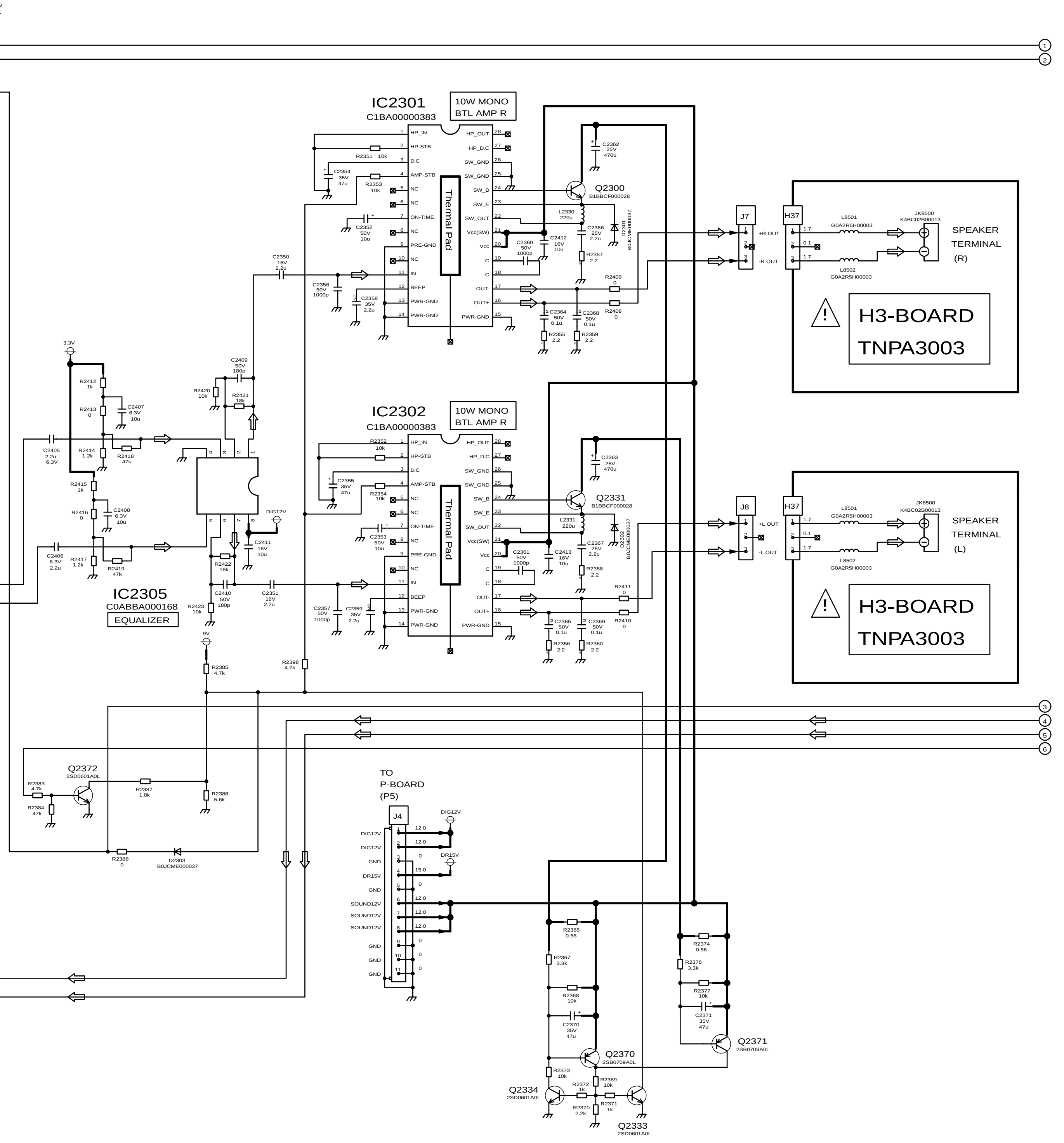

TO HX1
J14
STB+5V
+5V
+9V
PC-G
PC-B
PC-R
PC-HD_HX
PC-VD_HX
PC_AUDIO_IN_R
PC-AUDIO_IN_L
PC-TXD
PC-RXD
STB5V
5V
9V
AD_Y_4
AD_PB_4
AD_PR_4
AF_HD_HX
AF_VD_HX
AD_R_4
AD_L_4
AJ_TXD_4
AJ_RXD_4
004
LOT DET IIC CONTROL)
OUTPUT PORT
8bit ADC
AH_SLOT1_DET
AH_SLOT2_DET
AH_SLOT3_DET
AH_SOS_ALL
IIC_SW
IC3003
EX I/O(VIDEO/AUDIO SELECT)
(MAIN)
OUTPUT PORT(SW0)
OUTPUT PORT(SW1)
8bit ADC(SYNC INH(M))
8bit ADC(CS(M))
8bit ADC(LPF(M))
8bit ADC(FAN CONT)
IIC CONT.
AC_SW0
AC_SW1
AE_SW0
AE_SW1
SYNC_INH(M)
AC_CS(M)
LPF(M)
FAN_CONT
AA_SCL3
AA_SDA3
IC8014
RS232C
DRIVER
Q8010-
Q8013
STB3.3V
AD_HD_4
AD_VD_4
AJ_TXD4
AJ_RXD4
IC3002
EX.I/O(IIC SW)
AC_SCL3
AC_SDA3
IC3006
EX I/O(VIDEO/AUDIO SELECT)
(SUB)
OUTPUT PORT(SW2)
OUTPUT PORT(SW3)
8bit ADC(SYNC INH(S))
8bit ADC(CS(S))
8bit ADC(LPF(S))
AE_SW2
AE_SW3
SYNC_INH(S)
AC_CS(S)
LPF(S)
PHD8UK ONLY
IC8016
PC SYNC
INVERTER
DPMS_HD
DPMS_VD
IC8009
HD SWITCH
PHD8UK
ONLY
IC8001
SYNC SELECT(MAIN)
AI_VD_1
AL_VD_2
AK_VD_3
AD_VD_4
AI_HD_1
AL_HD_2
AK_HD_3
AD_HD_4
VD
HD
AE_SW1
AE_SW0
IC8007
SYNC SWITCH(MAIN)
Green
IC8003
SYNC SIGNAL
PROCESSOR(MAIN)
12V
Green in
V Sync
SEPA
H Sync
SEPA
IC8005
SYNC SIGNAL
INVERTER
AG_VD_M
AG_HD_M
J13
TO SLOT3
SLOT3.3V
SLOT5V
SLOT9V
STB5V
LAN15V
LAN+15V
AUDIO IN L
SRQ
AUDIO IN R
IIC_DATA
IIC_CLOCK
PLUG DET
PR/R
SOS
PB/B
RESET
Y/G
S2 DETECT
AK_L_3
AK_R_3
AM_SDA_S3
AK_VD_3
AM_SCL_S3
AK_HD_3
AH_SLOT3_DET
AK_PR_3
AH_SOS
AK_PB_3
AK_Y_3
AK_S2_3
IC8002
SYNC SELECT
(SUB)
AE_SW3
AE_SW2
IC8008
SYNC SWITCH(SUB)
IC8004
SYNC SIGNAL
PROCESSOR(SUB)
AF_VD_S
AF_HD_S
Q3004
D3005
P5V
LAN15V
AL_L_2
AL_R_2
AL_VD_2
AL_HD_2
AL_PR_2
AL_PB_2
AL_Y_2
SRQ
IIC_SDA
IIC_SCL
AH_SLOT2_DET
REMOTE
AH_SOS
RESET
AL_S2_2
SLOT5V
SLOT9V
STB5V
LAN+15V
TX0-
AUDIO IN L
TX0+
AUDIO IN R
TX1-
VD
TX1+
HD
TX2-
PR/R
TX2+
PB/B
TXC-
Y/G
TXC+
TX3-
TX3+
S_DATA1
S_CLOCK1
PLUG DET
SOS
S2 DETECT
J6
TO D5
TERMINAL GND
TX0-(M)
TX0+(M)
TX1-(M)
TX1+(M)
TX2-(M)
TX2+(M)
TXC-(M)
TXC+(M)
TX3-(M)
TX3+(M)
J10
TO P10
F_STB+14V

TH-65PHD8 SERIES
J-Board (2 of 2) Block Diagram

15.16. J-Board (1 of 4) and H3-Board Schematic Diagram


J-BOARD (1/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)
A
B
C
D
E
F
1
2
3
4
5
IC801
C0DBAMH00013
AVR 9V
9V/0.5A
DIG12V
L801
G1C470MA0078
D801
B0JCPD000026
IC802
C0DBAMH00013
AVR 5V
5V/0.4A
L802
G1C101MA0078
D802
B0JCME000037
IC803
C0DBAMH00013
AVR 3.3V
3.3V/1.3A
L803
G1C220MA0078
D803
B0JCME000037
VIN
GND
RT
EN
SW
FB
INV
L805
J0JHC0000078
L806
J0JHC0000078
L811
J0JHC0000078
L809
J0JHC0000078
L810
J0JHC0000078
L807
J0JHC0000078
L808
J0JHC0000078
L804
J0JHC0000078
5V
5V_M
5V_S
A_5V
3.3V
A_3.3V
D_3.3V
1.8V
A_1.8V
D_1.8V
IC804
C0CBCAC00275
AVR 1.8V
VOUT
NC
VDD
GND
CE
JS801
JS802
JS803
JS804
JS805
JS806
JS807
JS808
JS809
JS810
JS811
JS812
JS813
JS814
JS815
JS816
ERJ6GEY0R00V
IC2303
C1BB00001006
SOUND COMTROL
X2301
H0J184500020
RESET
OUT-R
OUT-L
GUARD_CL
Q2372
2SD0601A0L
R2383
4.7k
R2384
47k

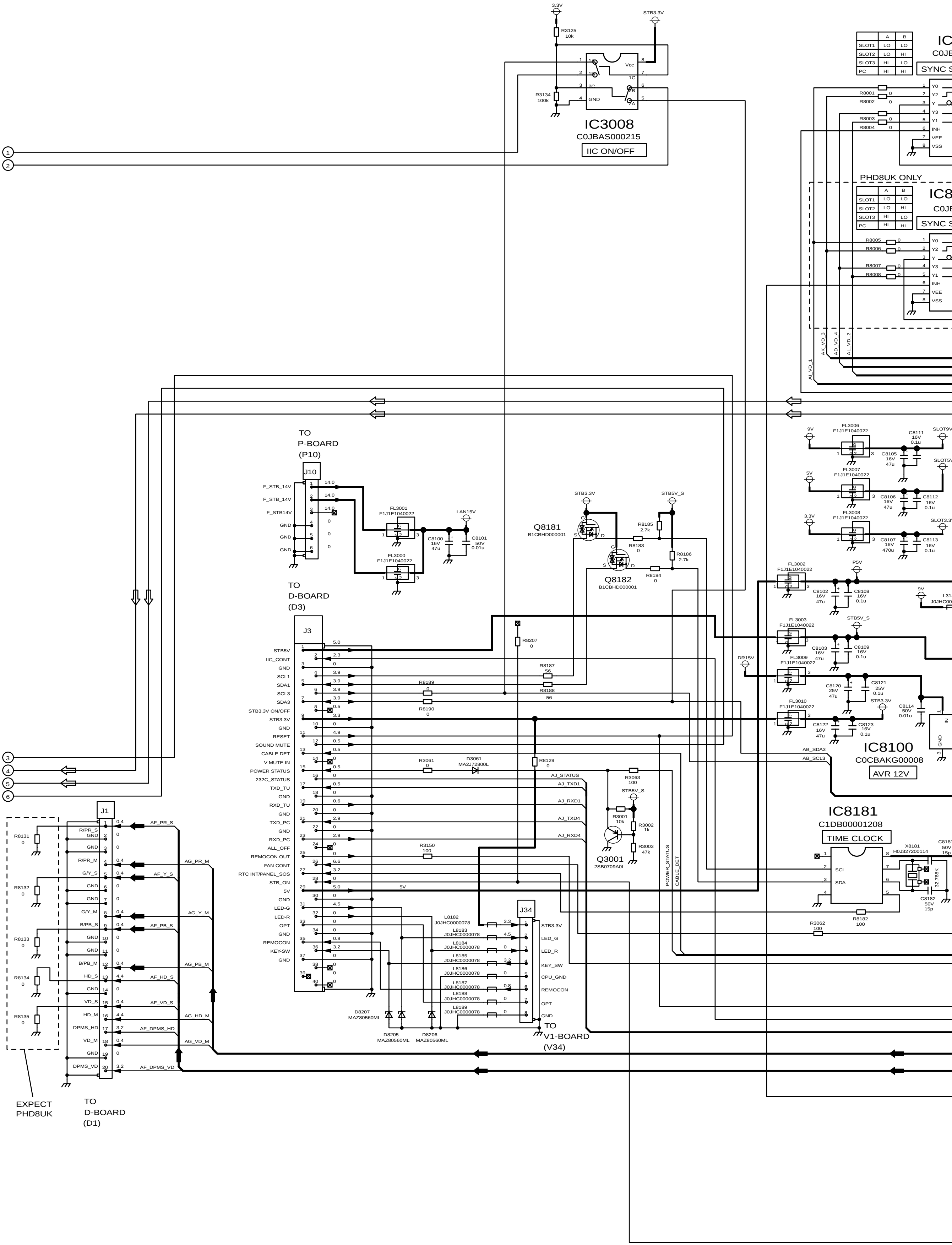
TH-65PHD8 SERIES
J-Board (1 of 4) and H3-Board Schematic Diagram


IC2301
C1BA00000383
10W MONO
BTL AMP R
HP_IN
HP-STB
D.C
AMP-STB
NC
ON-TIME
PRE-GND
IN
BEEP
PWR-GND
HP_OUT
HP_D.C
SW_GND
SW_B
SW_E
SW_OUT
Vcc(SW)
Vcc
C
OUT-
OUT+
Thermal Pad
R2351 10k
C2354 35V 47u
R2353 10k
C2352 50V 10u
C2350 16V 2.2u
C2356 50V 1000p
C2358 35V 2.2u
Q2300
B1BBCF000028
C2362 25V 470u
L2330 220u
C2366 25V 2.2u
D2301 B0JCME000037
C2360 50V 1000p
C2412 16V 10u
R2357 2.2
R2409 0
R2408 0
C2364 50V 0.1u
C2368 50V 0.1u
R2355 2.2
R2359 2.2
J7
+R OUT
-R OUT
H37
L8501 G0A2R5H00003
L8502 G0A2R5H00003
JK8500 K4BC02B00013
SPEAKER
TERMINAL
(R)
H3-BOARD
TNPA3003
3.3V
R2412 1k
R2413 0
C2407 6.3V 10u
C2409 50V 180p
R2420 10k
R2421 18k
C2405 2.2u 6.3V
R2414 1.2k
R2418 47k
R2415 1k
R2416 0
C2408 6.3V 10u
DIG12V
C2411 16V 10u
C2406 6.3V 2.2u
R2417 1.2k
R2419 47k
R2422 18k
IC2305
C0ABBA000168
EQUALIZER
R2423 10k
C2410 50V 180p
C2351 16V 2.2u
9V
R2385 4.7k
R2398 4.7k
IC2302
C1BA00000383
10W MONO
BTL AMP R
R2352 10k
C2355 35V 47u
R2354 10k
C2353 50V 10u
C2357 50V 1000p
C2359 35V 2.2u
Q2331
B1BBCF000028
C2363 25V 470u
L2331 220u
C2367 25V 2.2u
D2302 B0JCME000037
C2361 50V 1000p
C2413 16V 10u
R2358 2.2
R2411 0
R2410 0
C2365 50V 0.1u
C2369 50V 0.1u
R2356 2.2
R2360 2.2
J8
+L OUT
-L OUT
SPEAKER
TERMINAL
(L)
H3-BOARD
TNPA3003
Q2372
2SD0601A0L
R2383 4.7k
R2384 47k
R2387 1.8k
R2386 5.6k
R2388 0
D2303 B0JCME000037
TO
P-BOARD
(P5)
J4
DIG12V
DIG12V
GND
DR15V
GND
SOUND12V
SOUND12V
SOUND12V
GND
GND
GND
12.0
12.0
0
15.0
0
12.0
12.0
12.0
0
0
0
DIG12V
DR15V
R2365 0.56
R2367 3.3k
R2368 10k
C2370 35V 47u
Q2370
2SB0709A0L
R2373 10k
R2372 1k
R2369 10k
R2370 2.2k
R2371 1k
Q2334
2SD0601A0L
Q2333
2SD0601A0L
R2374 0.56
R2376 3.3k
R2377 10k
C2371 35V 47u
Q2371
2SB0709A0L
1
2
3
4
5
6

TH-65PHD8 SERIES
J-Board (1 of 4) and H3-Board Schematic Diagram

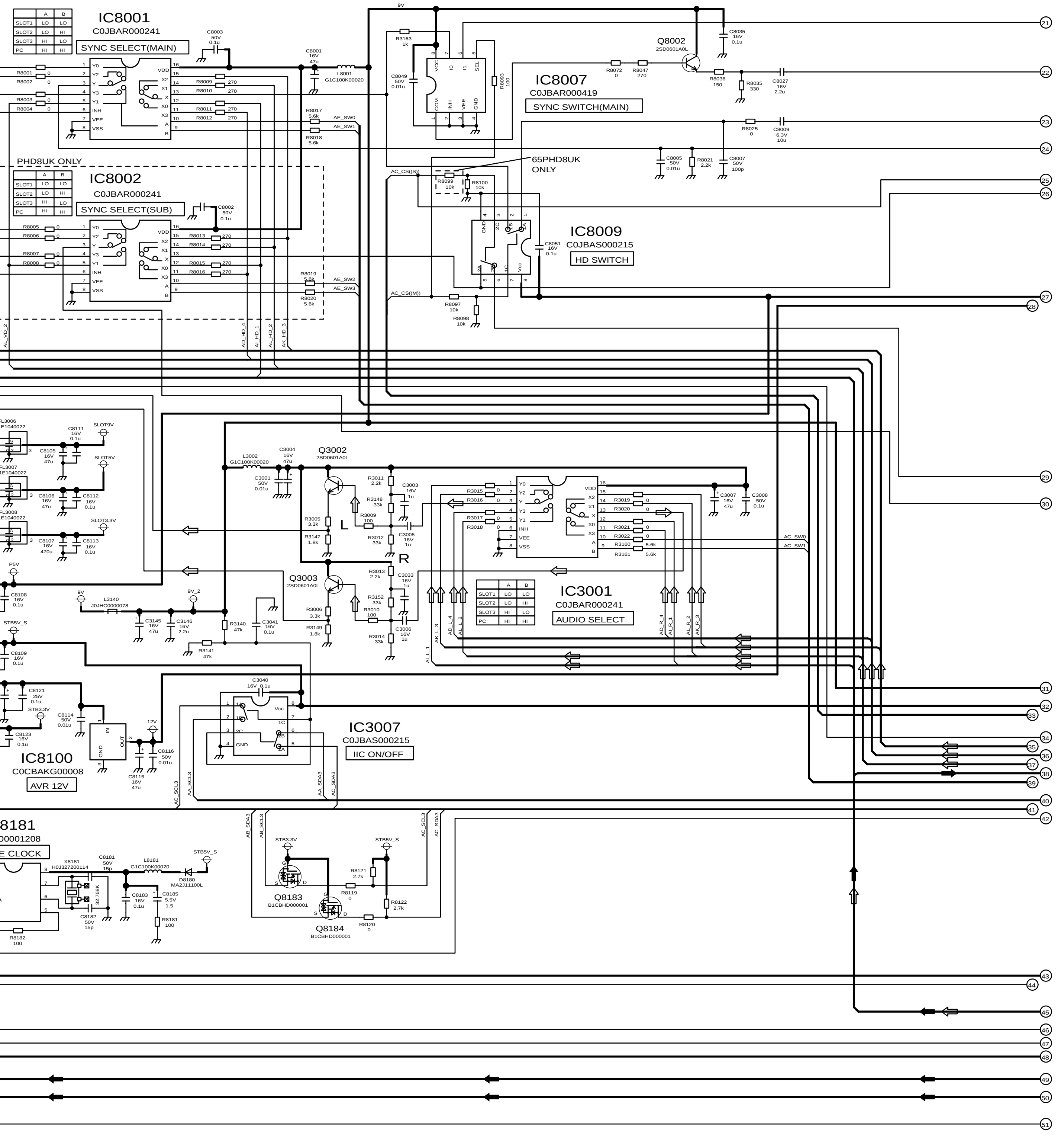
5 6 7 8 9

15.17. J-Board (2 of 4) Schematic Diagram


3.3V
STB3.3V
R3125
10k
R3134
100k
Vcc
GND
IC3008
C0JBAS000215
IIC ON/OFF
PHD8UK ONLY
SLOT1
SLOT2
SLOT3
PC
LO
HI
SYNC S
Y0
Y2
Y
Y3
Y1
INH
VEE
VSS
R8001
R8002
R8003
R8004
R8005
R8006
R8007
R8008
AI_VD_1
AK_VD_3
AD_VD_4
AL_VD_2
TO
P-BOARD
(P10)
J10
F_STB_14V
F_STB14V
GND
FL3001
F1J1E1040022
FL3000
LAN15V
C8100
16V
47u
C8101
50V
0.01u
Q8181
B1CBHD000001
Q8182
STB5V_S
R8185
2.7k
R8183
R8186
R8184
TO
D-BOARD
(D3)
J3
STB5V
IIC_CONT
SCL1
SDA1
SCL3
SDA3
STB3.3V ON/OFF
RESET
SOUND MUTE
CABLE DET
V MUTE IN
POWER STATUS
232C_STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
ALL_OFF
REMOCON OUT
FAN CONT
RTC INT/PANEL_SOS
STB_ON
5V
LED-G
LED-R
OPT
REMOCON
KEY-SW
R8207
R8187
56
R8188
R8189
R8190
R3061
D3061
MA2J72800L
R8129
R3150
100
AJ_STATUS
AJ_TXD1
AJ_RXD1
AJ_TXD4
AJ_RXD4
R3063
R3001
10k
R3002
1k
R3003
47k
Q3001
2SB0709A0L
POWER_STATUS
CABLE_DET
J34
STB3.3V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
TO
V1-BOARD
(V34)
L8182
L8183
L8184
L8185
L8186
L8187
L8188
L8189
J0JHC0000078
D8207
MAZ80560ML
D8205
MAZ80560ML
D8206
MAZ80560ML
J1
R/PR_S
R/PR_M
G/Y_S
G/Y_M
B/PB_S
B/PB_M
HD_S
VD_S
HD_M
DPMS_HD
VD_M
DPMS_VD
AF_PR_S
AG_PR_M
AF_Y_S
AG_Y_M
AF_PB_S
AG_PB_M
AF_HD_S
AF_VD_S
AG_HD_M
AF_DPMS_HD
AG_VD_M
AF_DPMS_VD
R8131
R8132
R8133
R8134
R8135
EXPECT
PHD8UK
TO
D-BOARD
(D1)
9V
5V
3.3V
SLOT9V
SLOT5V
SLOT3.3V
FL3006
FL3007
FL3008
FL3002
FL3003
FL3009
FL3010
F1J1E1040022
C8105
C8106
C8107
C8111
C8112
C8113
C8102
C8108
C8103
C8109
C8120
C8121
C8122
C8123
C8114
P5V
DR15V
IC8100
C0CBAKG00008
AVR 12V
AB_SDA3
AB_SCL3
IC8181
C1DB00001208
TIME CLOCK
SCL
SDA
X8181
H0J327200114
32.768K
C8182
50V
15p
R3062
100
R8182
100

TH-65PHD8 SERIES
J-Board (2 of 4) Schematic Diagram

10 11 12 13 14


IC8001
C0JBAR000241
SYNC SELECT(MAIN)
PHD8UK ONLY
IC8002
C0JBAR000241
SYNC SELECT(SUB)
IC8007
C0JBAR000419
SYNC SWITCH(MAIN)
Q8002
2SD0601A0L
65PHD8UK ONLY
IC8009
C0JBAS000215
HD SWITCH
Q3002
2SD0601A0L
Q3003
2SD0601A0L
L
R
IC3001
C0JBAR000241
AUDIO SELECT
IC8100
C0CBAKG00008
AVR 12V
IC3007
C0JBAS000215
IIC ON/OFF
8181
00001208
E CLOCK
Q8183
B1CBHD000001
Q8184
B1CBHD000001
SLOT1
SLOT2
SLOT3
PC
LO
HI
AE_SW0
AE_SW1
AE_SW2
AE_SW3
AC_SW0
AC_SW1
AC_CS(S)
AC_CS(M)
AC_SCL3
AC_SDA3
AA_SCL3
AA_SDA3
AB_SDA3
AB_SCL3
SLOT9V
SLOT5V
SLOT3.3V
P5V
STB5V_S
STB3.3V
9V
9V_2
12V
21
22
23
24
25
26
27
28
29
30
31
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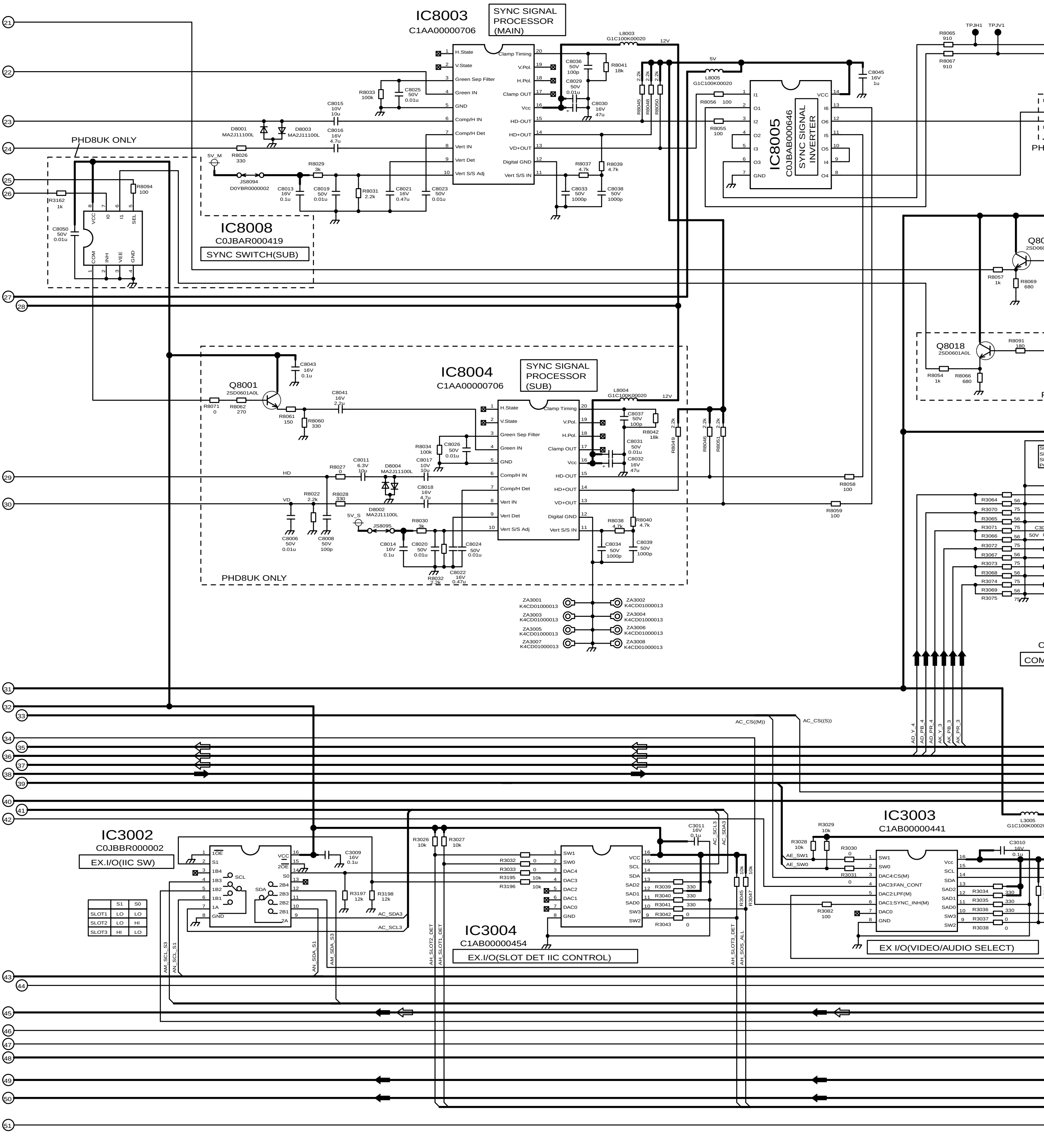
J-BOARD (2/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)

52

TH-65PHD8 SERIES
J-Board (2 of 4) Schematic Diagram

14 15 16 17 18

15.18. J-Board (3 of 4) Schematic Diagram


IC8003
C1AA00000706
SYNC SIGNAL PROCESSOR (MAIN)
IC8005
C0JBAB000646
SYNC SIGNAL INVERTER
IC8008
C0JBAR000419
SYNC SWITCH(SUB)
PHD8UK ONLY
IC8004
C1AA00000706
SYNC SIGNAL PROCESSOR (SUB)
Q8001
2SD0601A0L
Q8018
2SD0601A0L
L8003
G1C100K00020
L8004
G1C100K00020
L8005
G1C100K00020
IC3002
C0JBBR000002
EX.I/O(IIC SW)
IC3004
C1AB00000454
EX.I/O(SLOT DET IIC CONTROL)
IC3003
C1AB00000441
EX I/O(VIDEO/AUDIO SELECT)
S1 S0
SLOT1 LO LO
SLOT2 LO HI
SLOT3 HI LO
AC_CS((M))
AC_CS((S))
AC_SDA3
AC_SCL3
ZA3001 K4CD01000013
ZA3002 K4CD01000013
ZA3003 K4CD01000013
ZA3004 K4CD01000013
ZA3005 K4CD01000013
ZA3006 K4CD01000013
ZA3007 K4CD01000013
ZA3008 K4CD01000013
21
22
23
24
25
26
27
28
29
30
31
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34
35
36
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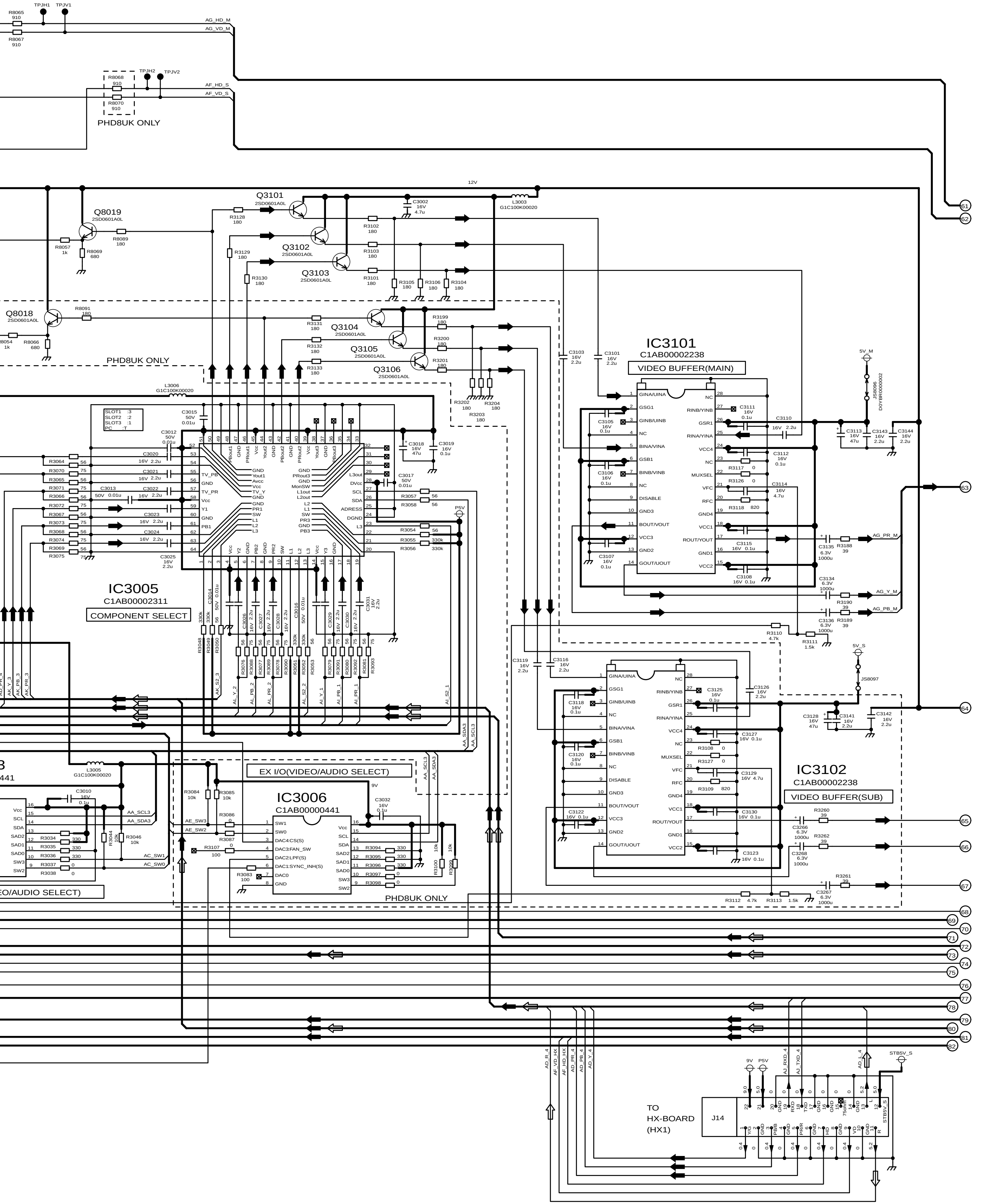
51

⚠ J-BOARD (3/4)
TNPA3630AD (65PHD8BK/EK)
TNPA3630AC (65PHD8UK)

TH-65PHD8 SERIES
J-Board (3 of 4) Schematic Diagram

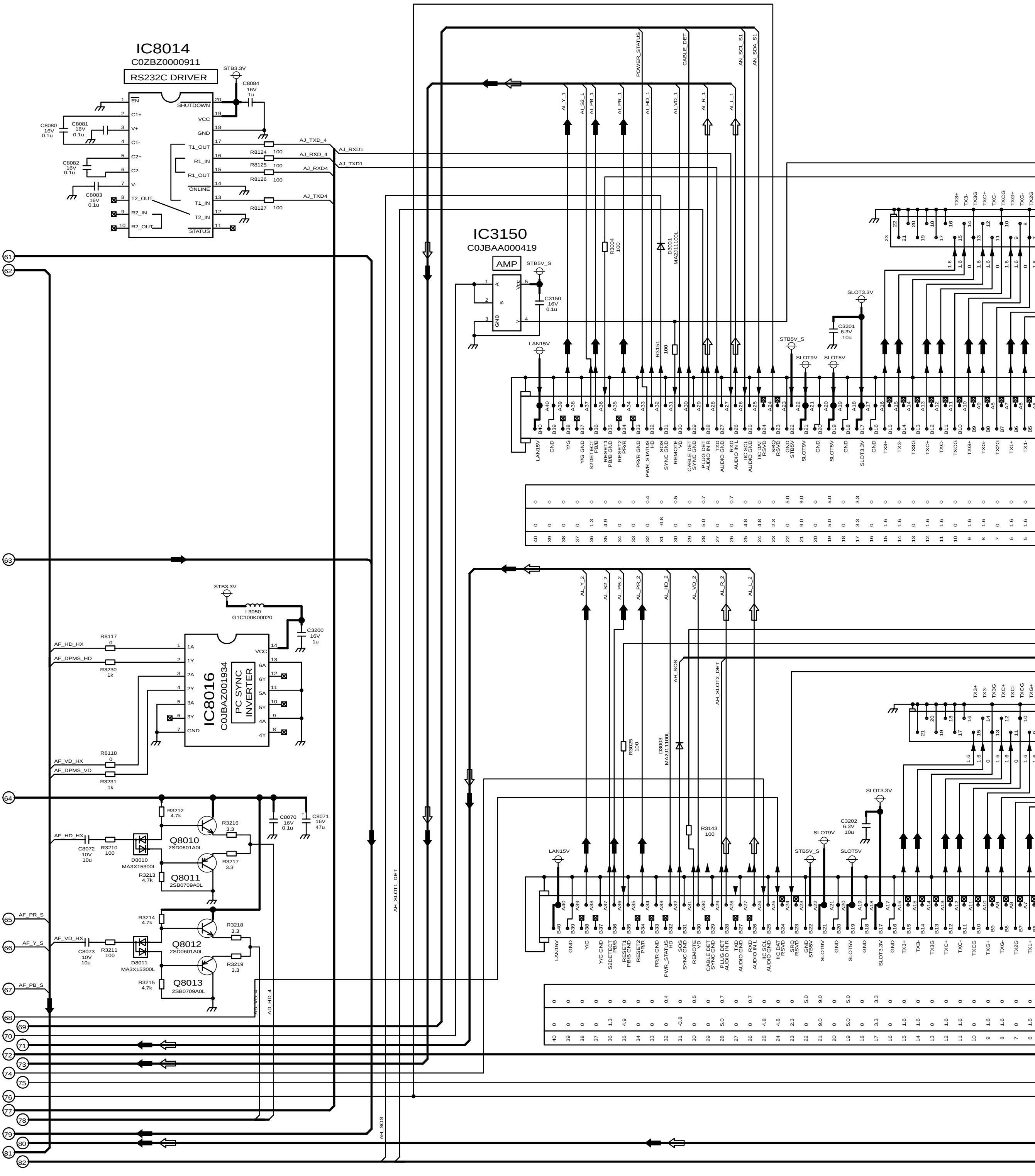
19 20 21 22 23


TPJH1
TPJV1
R8065 910
R8067 910
AG_HD_M
AG_VD_M
TPJH2
TPJV2
R8068 910
R8070 910
AF_HD_S
AF_VD_S
PHD8UK ONLY
12V
Q3101 2SD0601A0L
Q8019 2SD0601A0L
Q3102 2SD0601A0L
Q3103 2SD0601A0L
Q8018 2SD0601A0L
Q3104 2SD0601A0L
Q3105 2SD0601A0L
Q3106 2SD0601A0L
L3003 G1C100K00020
C3002 16V 4.7u
L3006 G1C100K00020
IC3101
C1AB00002238
VIDEO BUFFER(MAIN)
IC3005
C1AB00002311
COMPONENT SELECT
SLOT1 :3
SLOT2 :2
SLOT3 :1
PC :T
5V_M
JS8096
5V_S
JS8097
P5V
9V
IC3006
C1AB00000441
EX I/O(VIDEO/AUDIO SELECT)
L3005 G1C100K00020
IC3102
C1AB00002238
VIDEO BUFFER(SUB)
AG_PR_M
AG_Y_M
AG_PB_M
AA_SCL3
AA_SDA3
AE_SW3
AE_SW2
AC_SW1
AC_SW0
STB5V_S
TO
HX-BOARD
(HX1)
J14
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83

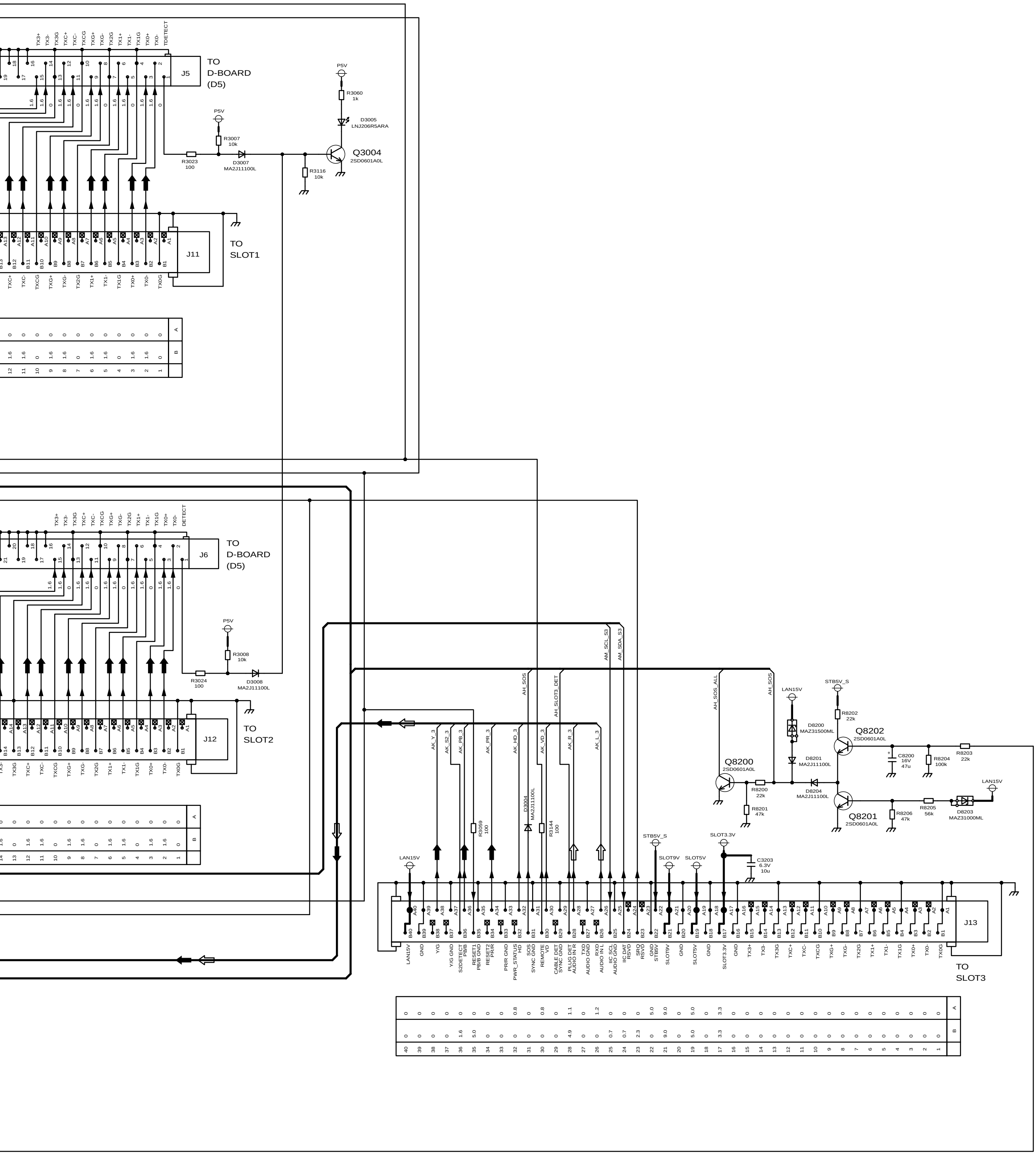
TH-65PHD8 SERIES
J-Board (3 of 4) Schematic Diagram

23	24	25	26	27

15.19. J-Board (4 of 4) Schematic Diagram

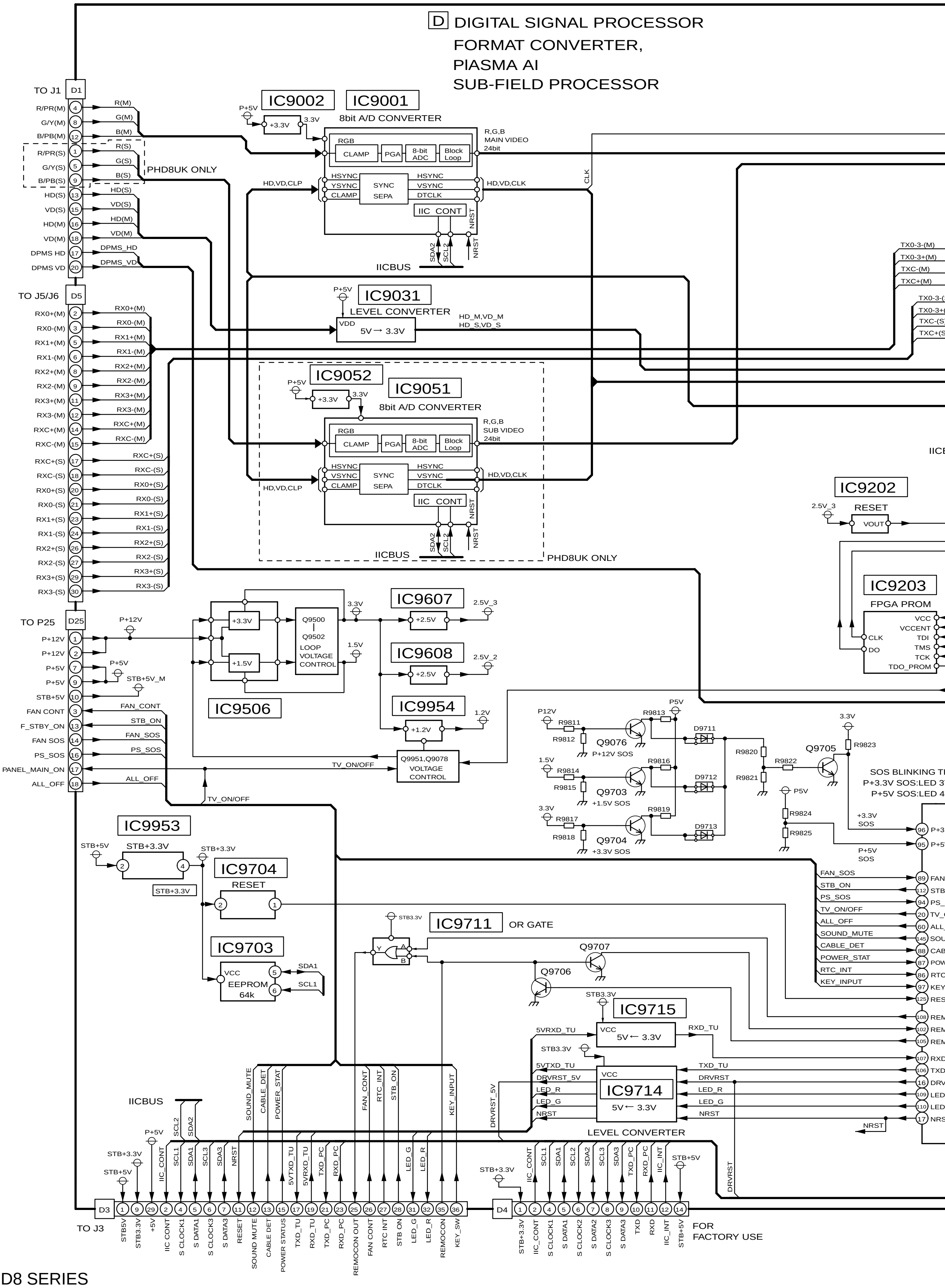

IC8014
C0ZBZ0000911
RS232C DRIVER
STB3.3V
C8084 16V 1u
EN
C1+
V+
C1-
C2+
C2-
V-
T2_OUT
R2_IN
R2_OUT
SHUTDOWN
VCC
GND
T1_OUT
R1_IN
R1_OUT
ONLINE
T1_IN
T2_IN
STATUS
C8080 16V 0.1u
C8081 16V 0.1u
C8082 16V 0.1u
C8083 16V 0.1u
R8124 100
R8125 100
R8126 100
R8127 100
AJ_TXD_4
AJ_RXD_4
AJ_RXD4
AJ_TXD4
AJ_RXD1
AJ_TXD1
IC3150
C0JBAA000419
AMP
STB5V_S
C3150 16V 0.1u
POWER_STATUS
CABLE_DET
AN_SCL_S1
AN_SDA_S1
AI_Y_1
AI_S2_1
AI_PB_1
AI_PR_1
AI_HD_1
AI_VD_1
AI_R_1
AI_L_1
R3004 100
D3001 MA2J1100L
R3151 100
LAN15V
SLOT3.3V
C3201 6.3V 10u
STB5V_S
SLOT9V
SLOT5V
STB3.3V
L3050 G1C100K00020
C3200 16V 1u
IC8016
C0JBAZ001934
PC SYNC INVERTER
AF_HD_HX
AF_DPMS_HD
AF_VD_HX
AF_DPMS_VD
R8117 0
R3230 1k
R8118 0
R3231 1k
R3212 4.7k
R3216 3.3
R3210 100
C8072 10V 10u
D8010 MA3X15300L
Q8010 2SD0601A0L
Q8011 2SB0709A0L
R3213 4.7k
R3217 3.3
C8070 16V 0.1u
C8071 16V 47u
AF_PR_S
AF_Y_S
AF_PB_S
R3214 4.7k
R3218 3.3
R3211 100
C8073 10V 10u
D8011 MA3X15300L
Q8012 2SD0601A0L
Q8013 2SB0709A0L
R3215 4.7k
R3219 3.3
AD_VD_4
AD_HD_4
AH_SLOT1_DET
AH_SOS
AH_SLOT2_DET
AL_Y_2
AL_S2_2
AL_PB_2
AL_PR_2
AL_HD_2
AL_VD_2
AL_R_2
AL_L_2
R3025 100
D3003 MA2J1100L
R3143 100
C3202 6.3V 10u
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82

> ⚠
> J-BOARD (4/4)
> TNPA3630AD (65PHD8BK/EK)
> TNPA3630AC (65PHD8UK)

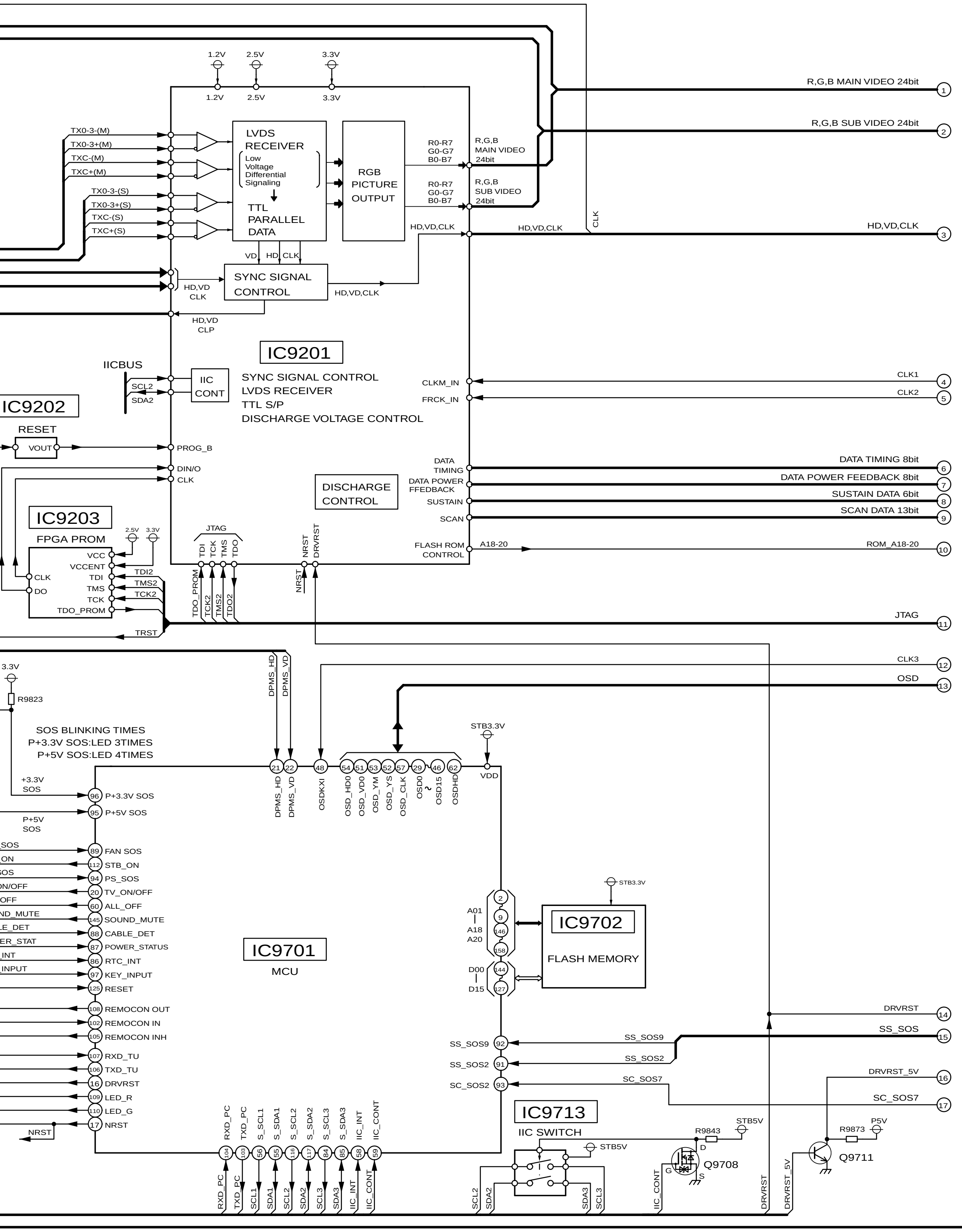

TO
D-BOARD
(D5)
J5
P5V
R3060
1k
D3005
LNJ206R5ARA
R3007
10k
R3023
100
D3007
MA2J11100L
Q3004
2SD0601A0L
R3116
10k
J11
TO
SLOT1
J6
TO
D-BOARD
(D5)
R3008
10k
R3024
100
D3008
MA2J11100L
J12
TO
SLOT2
AM_SCL_S3
AM_SDA_S3
AH_SOS
AH_SLOT3_DET
AH_SOS_ALL
LAN15V
STB5V_S
R8202
22k
D8200
MAZ31500ML
Q8202
2SD0601A0L
Q8200
2SD0601A0L
D8201
MA2J11100L
C8200
16V
47u
R8204
100k
R8203
22k
R8200
22k
D8204
MA2J11100L
R8201
47k
Q8201
2SD0601A0L
R8206
47k
R8205
56k
D8203
MAZ31000ML
AK_Y_3
AK_S2_3
AK_PB_3
AK_PR_3
AK_HD_3
AK_VD_3
AK_R_3
AK_L_3
D3004
MA2J11100L
R3059
100
R3144
100
SLOT3.3V
C3203
6.3V
10u
SLOT9V
SLOT5V
J13
TO
SLOT3
LAN15V
GND
Y/G
Y/G GND
S2DETECT
PB/B
RESET1
PB/B GND
RESET2
PR/R
PR/R GND
PWR_STATUS
HD
SOS
SYNC GND
REMOTE
VD
CABLE DET
SYNC GND
PLUG DET
AUDIO IN R
TXD
AUDIO GND
RXD
AUDIO IN L
IIC SCL
AUDIO GND
IIC DAT
RSVD
SRQ
RSVD
GND
STB5V
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
GND
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G
TDETECT
DETECT

TH-65PHD8 SERIES
J-Board (4 of 4) Schematic Diagram

15.20. D-Board (1 of 2) Block Diagram

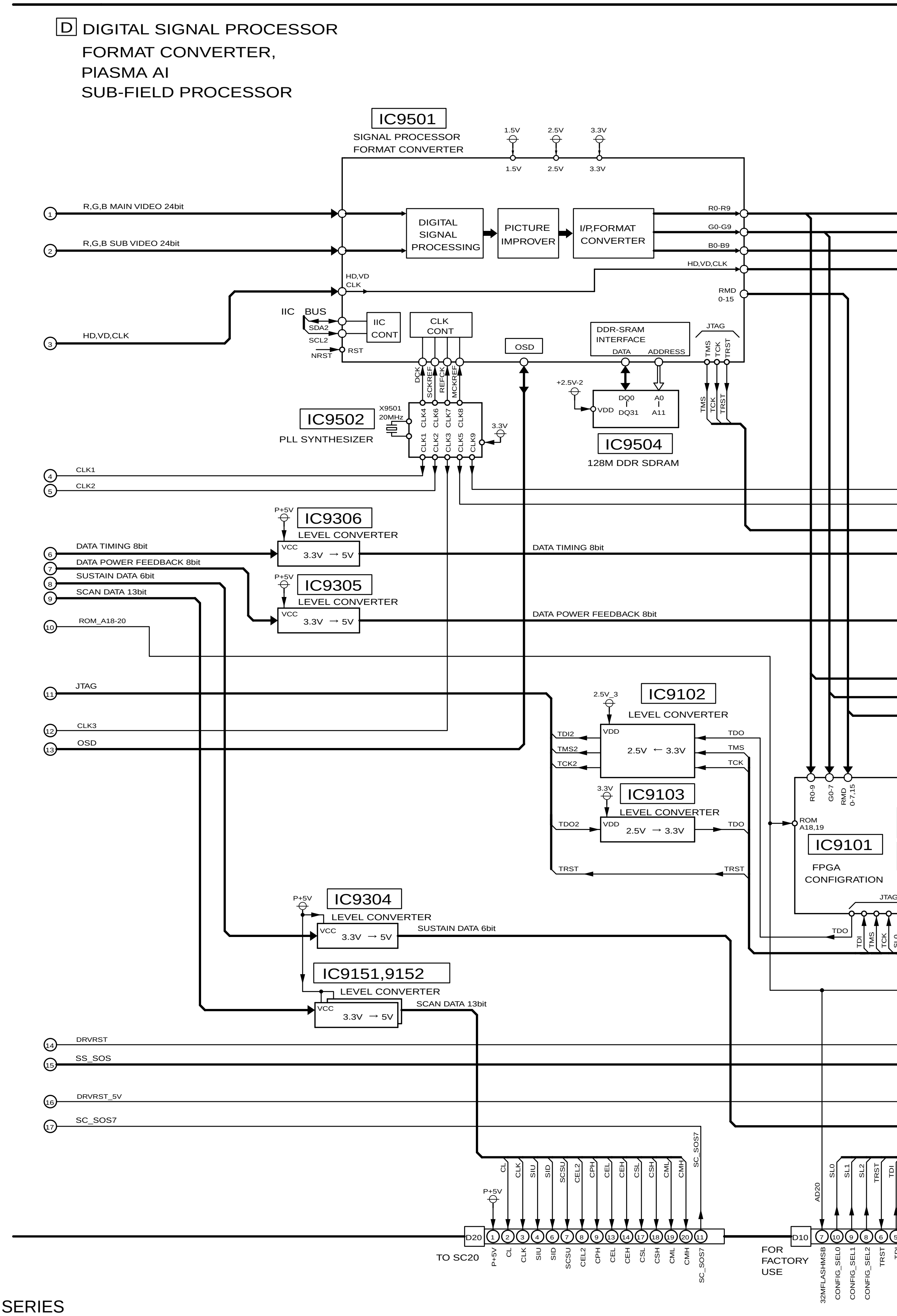

D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER,
PIASMA AI
SUB-FIELD PROCESSOR
TO J1
D1
R/PR(M)
G/Y(M)
B/PB(M)
R/PR(S)
G/Y(S)
B/PB(S)
HD(S)
VD(S)
HD(M)
VD(M)
DPMS HD
DPMS VD
PHD8UK ONLY
IC9002
IC9001
8bit A/D CONVERTER
P+5V
+3.3V
3.3V
RGB
CLAMP
PGA
8-bit ADC
Block Loop
HSYNC
VSYNC
CLAMP
SYNC SEPA
DTCLK
IIC CONT
NRST
SDA2
SCL2
IICBUS
HD,VD,CLP
HD,VD,CLK
R,G,B MAIN VIDEO 24bit
CLK
TO J5/J6
D5
RX0+(M)
RX0-(M)
RX1+(M)
RX1-(M)
RX2+(M)
RX2-(M)
RX3+(M)
RX3-(M)
RXC+(M)
RXC-(M)
RXC+(S)
RXC-(S)
RX0+(S)
RX0-(S)
RX1+(S)
RX1-(S)
RX2+(S)
RX2-(S)
RX3+(S)
RX3-(S)
IC9031
LEVEL CONVERTER
VDD
5V → 3.3V
HD_M,VD_M
HD_S,VD_S
IC9052
IC9051
R,G,B SUB VIDEO 24bit
PHD8UK ONLY
TX0-3-(M)
TX0-3+(M)
TXC-(M)
TXC+(M)
IC9202
RESET
2.5V_3
VOUT
IC9203
FPGA PROM
VCC
VCCENT
TDI
TMS
TCK
TDO_PROM
CLK
DO
TO P25
D25
P+12V
P+5V
STB+5V
FAN CONT
F_STBY_ON
FAN SOS
PS_SOS
PANEL_MAIN_ON
ALL_OFF
STB+5V_M
FAN_CONT
STB_ON
FAN_SOS
PS_SOS
ALL_OFF
TV_ON/OFF
IC9506
+3.3V
+1.5V
Q9500 | Q9502
LOOP VOLTAGE CONTROL
3.3V
1.5V
IC9607
+2.5V
2.5V_3
IC9608
2.5V_2
IC9954
+1.2V
1.2V
Q9951,Q9078 VOLTAGE CONTROL
P12V
R9811
R9812
Q9076
P+12V SOS
R9813
P5V
D9711
R9814
R9815
Q9703
+1.5V SOS
R9816
D9712
R9817
R9818
Q9704
+3.3V SOS
R9819
D9713
R9820
R9821
R9822
Q9705
R9823
R9824
R9825
SOS BLINKING TI
P+3.3V SOS:LED 3
P+5V SOS:LED 4
+3.3V SOS
P+5V SOS
IC9953
STB+3.3V
IC9704
RESET
IC9703
VCC
EEPROM 64k
SDA1
SCL1
IC9711
OR GATE
STB3.3V
Q9707
Q9706
IC9715
5VRXD_TU
VCC
5V ← 3.3V
RXD_TU
IC9714
5VTXD_TU
DRVRST_5V
LED_R
LED_G
NRST
TXD_TU
DRVRST
LEVEL CONVERTER
FAN_SOS
STB_ON
PS_SOS
TV_ON/OFF
ALL_OFF
SOUND_MUTE
CABLE_DET
POWER_STAT
RTC_INT
KEY_INPUT
IICBUS
TO J3
D3
STB5V
STB3.3V
+5V
IIC CONT
S CLOCK1
S DATA1
S CLOCK3
S DATA3
RESET
SOUND MUTE
CABLE DET
POWER STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
REMOCON OUT
FAN CONT
RTC INT
STB ON
LED_G
LED_R
REMOCON
KEY_SW
D4
STB+3.3V
IIC_CONT
S CLOCK2
S DATA2
TXD
RXD
IIC_INT
STB+5V
FOR FACTORY USE

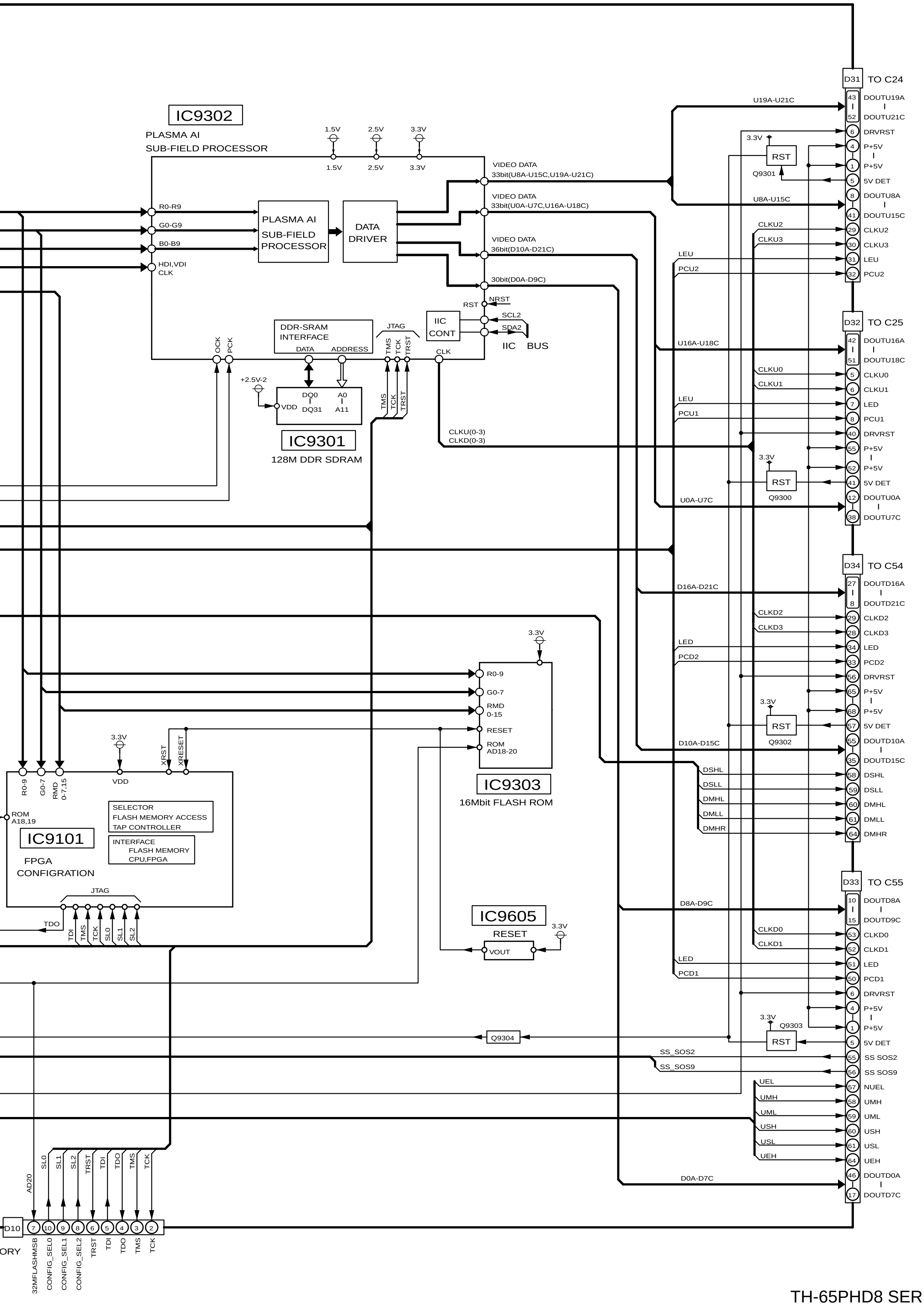
TH-65PHD8 SERIES
D-Board (1 of 2) Block Diagram


1.2V
2.5V
3.3V
R,G,B MAIN VIDEO 24bit
R,G,B SUB VIDEO 24bit
TX0-3-(M)
TX0-3+(M)
TXC-(M)
TXC+(M)
TX0-3-(S)
TX0-3+(S)
TXC-(S)
TXC+(S)
LVDS RECEIVER
Low Voltage Differential Signaling
TTL PARALLEL DATA
RGB PICTURE OUTPUT
R0-R7 G0-G7 B0-B7
R,G,B MAIN VIDEO 24bit
R,G,B SUB VIDEO 24bit
HD,VD,CLK
CLK
VD HD CLK
SYNC SIGNAL CONTROL
HD,VD CLK
HD,VD CLP
IC9201
SYNC SIGNAL CONTROL
LVDS RECEIVER
TTL S/P
DISCHARGE VOLTAGE CONTROL
IICBUS
SCL2
SDA2
IIC CONT
IC9202
RESET
VOUT
PROG_B
DIN/O
CLK
CLKM_IN
FRCK_IN
CLK1
CLK2
DATA TIMING
DATA POWER FFEDBACK
SUSTAIN
SCAN
DATA TIMING 8bit
DATA POWER FEEDBACK 8bit
SUSTAIN DATA 6bit
SCAN DATA 13bit
DISCHARGE CONTROL
FLASH ROM CONTROL
A18-20
ROM_A18-20
IC9203
FPGA PROM
2.5V 3.3V
VCC
VCCENT
TDI
TMS
TCK
TDO_PROM
CLK
DO
TDI2
TMS2
TCK2
TRST
JTAG
TDI TCK TMS TDO
NRST DRVRST
TDO_PROM TCK2 TMS2 TDO2
NRST
JTAG
CLK3
OSD
3.3V
R9823
SOS BLINKING TIMES
P+3.3V SOS:LED 3TIMES
P+5V SOS:LED 4TIMES
DPMS_HD DPMS_VD
21 22 48 54 51 53 52 57 29 46 62
DPMS_HD DPMS_VD OSDKXI OSD_HD0 OSD_VD0 OSD_YM OSD_YS OSD_CLK OSD0 ~ OSD15 OSDHD
STB3.3V
VDD
+3.3V SOS
P+5V SOS
96 P+3.3V SOS
95 P+5V SOS
89 FAN SOS
112 STB_ON
94 PS_SOS
20 TV_ON/OFF
60 ALL_OFF
145 SOUND_MUTE
88 CABLE_DET
87 POWER_STATUS
86 RTC_INT
97 KEY_INPUT
125 RESET
108 REMOCON OUT
102 REMOCON IN
105 REMOCON INH
107 RXD_TU
106 TXD_TU
16 DRVRST
109 LED_R
110 LED_G
17 NRST
NRST
IC9701
MCU
A01 | A18 A20
D00 | D15
2 9 146 158 144 127
STB3.3V
IC9702
FLASH MEMORY
DRVRST
SS_SOS
SS_SOS9 92
SS_SOS2 91
SC_SOS2 93
SS_SOS9
SS_SOS2
SC_SOS7
DRVRST_5V
SC_SOS7
RXD_PC TXD_PC S_SCL1 S_SDA1 S_SCL2 S_SDA2 S_SCL3 S_SDA3 IIC_INT IIC_CONT
104 103 56 55 116 117 84 85 58 59
RXD_PC TXD_PC SCL1 SDA1 SCL2 SDA2 SCL3 SDA3 IIC_INT IIC_CONT
IC9713
IIC SWITCH
STB5V
SCL2 SDA2 SDA3 SCL3
R9843
STB5V
D
G
S
Q9708
IIC_CONT
DRVRST DRVRST_5V
R9873
P5V
Q9711
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

TH-65PHD8 SERIES
D-Board (1 of 2) Block Diagram

15.21. D-Board (2 of 2) Block Diagram

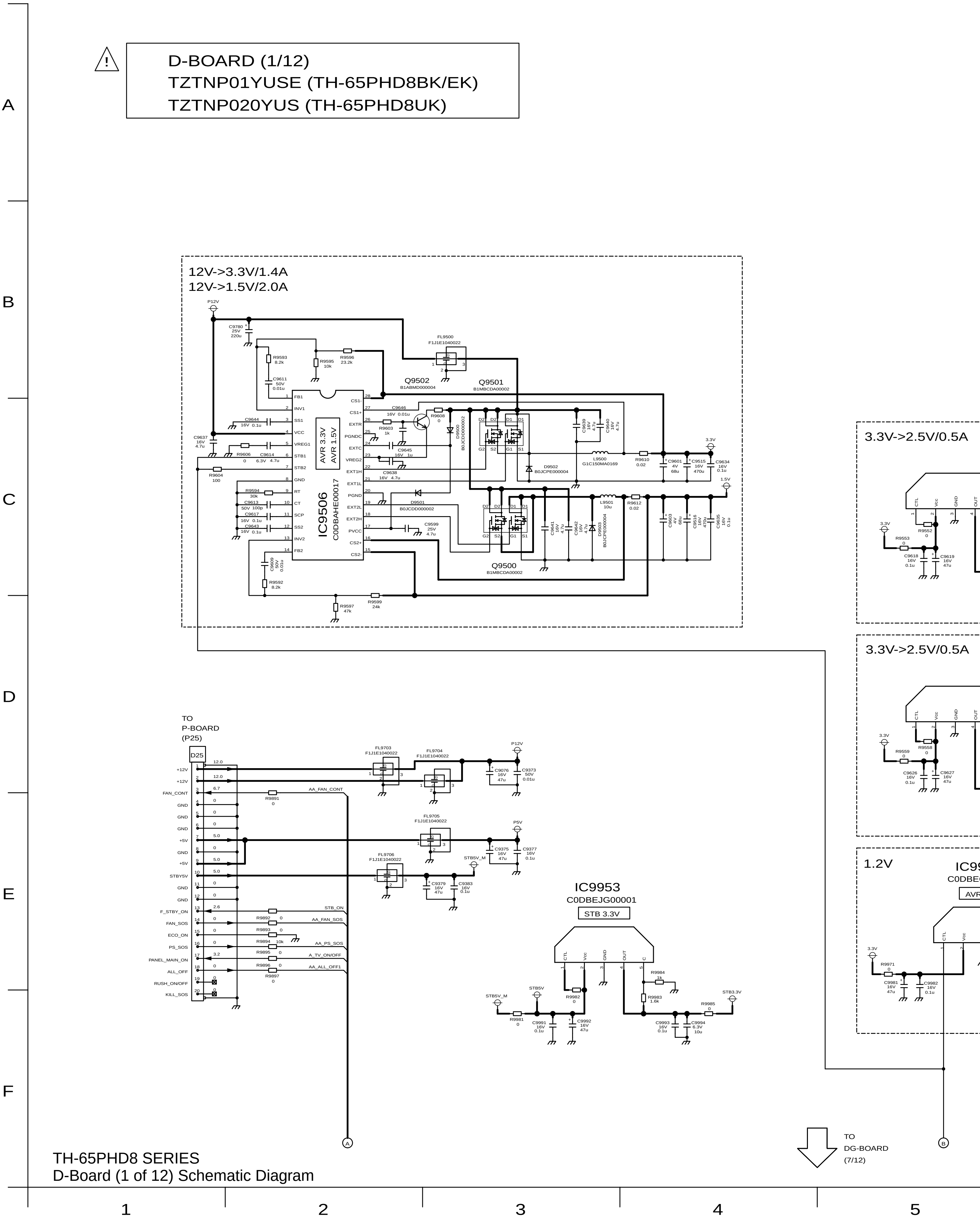

D
DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER,
PlASMA AI
SUB-FIELD PROCESSOR
IC9501
SIGNAL PROCESSOR
FORMAT CONVERTER
1.5V
2.5V
3.3V
R,G,B MAIN VIDEO 24bit
R,G,B SUB VIDEO 24bit
HD,VD,CLK
DIGITAL SIGNAL PROCESSING
PICTURE IMPROVER
I/P,FORMAT CONVERTER
R0-R9
G0-G9
B0-B9
HD,VD,CLK
RMD 0-15
HD,VD CLK
IIC BUS
SDA2
SCL2
NRST
RST
IIC CONT
CLK CONT
OSD
DDR-SRAM INTERFACE
DATA
ADDRESS
JTAG
TMS
TCK
TRST
DCK
SCKREF
REFCK
MCKREF
+2.5V-2
VDD
DQ0
DQ31
A0
A11
IC9502
PLL SYNTHESIZER
X9501 20MHz
CLK4
CLK6
CLK7
CLK8
CLK1
CLK2
CLK3
CLK5
CLK9
3.3V
IC9504
128M DDR SDRAM
CLK1
CLK2
P+5V
IC9306
LEVEL CONVERTER
VCC
3.3V → 5V
DATA TIMING 8bit
DATA POWER FEEDBACK 8bit
SUSTAIN DATA 6bit
SCAN DATA 13bit
ROM_A18-20
IC9305
LEVEL CONVERTER
DATA TIMING 8bit
DATA POWER FEEDBACK 8bit
JTAG
CLK3
OSD
2.5V_3
IC9102
LEVEL CONVERTER
TDI2
TMS2
TCK2
2.5V ← 3.3V
TDO
TMS
TCK
IC9103
LEVEL CONVERTER
TDO2
2.5V → 3.3V
TRST
R0-9
G0-7
RMD 0-7,15
ROM A18,19
IC9101
FPGA CONFIGRATION
JTAG
TDO
TDI
TMS
TCK
IC9304
LEVEL CONVERTER
SUSTAIN DATA 6bit
IC9151,9152
LEVEL CONVERTER
SCAN DATA 13bit
DRVRST
SS_SOS
DRVRST_5V
SC_SOS7
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CEH
CSL
CSH
CML
CMH
SC_SOS7
P+5V
D20
TO SC20
AD20
SL0
SL1
SL2
TRST
TDI
D10
FOR FACTORY USE
32MFLASHMSB
CONFIG_SEL0
CONFIG_SEL1
CONFIG_SEL2
TRST


IC9302
PLASMA AI
SUB-FIELD PROCESSOR
1.5V
2.5V
3.3V
1.5V
2.5V
3.3V
R0-R9
G0-G9
B0-B9
HDI,VDI
CLK
PLASMA AI
SUB-FIELD
PROCESSOR
DATA
DRIVER
VIDEO DATA
33bit(U8A-U15C,U19A-U21C)
VIDEO DATA
33bit(U0A-U7C,U16A-U18C)
VIDEO DATA
36bit(D10A-D21C)
30bit(D0A-D9C)
RST
NRST
SCL2
SDA2
IIC
CONT
IIC BUS
CLK
DDR-SRAM
INTERFACE
DATA
ADDRESS
JTAG
TMS
TCK
TRST
OCK
PCK
+2.5V-2
VDD
DQ0
DQ31
A0
A11
TMS
TCK
TRST
IC9301
128M DDR SDRAM
CLKU(0-3)
CLKD(0-3)
3.3V
R0-9
G0-7
RMD
0-15
RESET
ROM
AD18-20
IC9303
16Mbit FLASH ROM
3.3V
XRST
XRESET
R0-9
G0-7
RMD
0-7,15
VDD
ROM
A18,19
SELECTOR
FLASH MEMORY ACCESS
TAP CONTROLLER
IC9101
INTERFACE
FLASH MEMORY
CPU,FPGA
FPGA
CONFIGRATION
JTAG
TDO
TDI
TMS
TCK
SL0
SL1
SL2
IC9605
RESET
3.3V
VOUT
Q9304
AD20
SL0
SL1
SL2
TRST
TDI
TDO
TMS
TCK
D10
7
10
9
8
6
5
4
3
2
ORY
32MFLASHMSB
CONFIG_SEL0
CONFIG_SEL1
CONFIG_SEL2
TRST
TDI
TDO
TMS
TCK
D31
TO C24
U19A-U21C
43
52
DOUTU19A
DOUTU21C
6
DRVRST
3.3V
RST
Q9301
4
P+5V
1
P+5V
5
5V DET
U8A-U15C
8
DOUTU8A
41
DOUTU15C
CLKU2
CLKU3
29
CLKU2
30
CLKU3
LEU
31
LEU
PCU2
32
PCU2
D32
TO C25
U16A-U18C
42
DOUTU16A
51
DOUTU18C
CLKU0
5
CLKU0
CLKU1
6
CLKU1
LEU
7
LED
PCU1
8
PCU1
40
DRVRST
55
P+5V
3.3V
52
P+5V
RST
41
5V DET
Q9300
U0A-U7C
12
DOUTU0A
38
DOUTU7C
D34
TO C54
D16A-D21C
27
DOUTD16A
8
DOUTD21C
CLKD2
29
CLKD2
CLKD3
28
CLKD3
LED
34
LED
PCD2
33
PCD2
56
DRVRST
65
P+5V
3.3V
68
P+5V
RST
57
5V DET
Q9302
D10A-D15C
55
DOUTD10A
35
DOUTD15C
DSHL
58
DSHL
DSLL
59
DSLL
DMHL
60
DMHL
DMLL
61
DMLL
DMHR
64
DMHR
D33
TO C55
D8A-D9C
10
DOUTD8A
15
DOUTD9C
CLKD0
53
CLKD0
CLKD1
52
CLKD1
LED
51
LED
PCD1
50
PCD1
6
DRVRST
4
P+5V
3.3V
Q9303
1
P+5V
RST
5
5V DET
SS_SOS2
55
SS SOS2
SS_SOS9
56
SS SOS9
UEL
57
NUEL
UMH
58
UMH
UML
59
UML
USH
60
USH
USL
61
USL
UEH
64
UEH
D0A-D7C
46
DOUTD0A
17
DOUTD7C

TH-65PHD8 SERIES
D-Board (2 of 2) Block Diagram

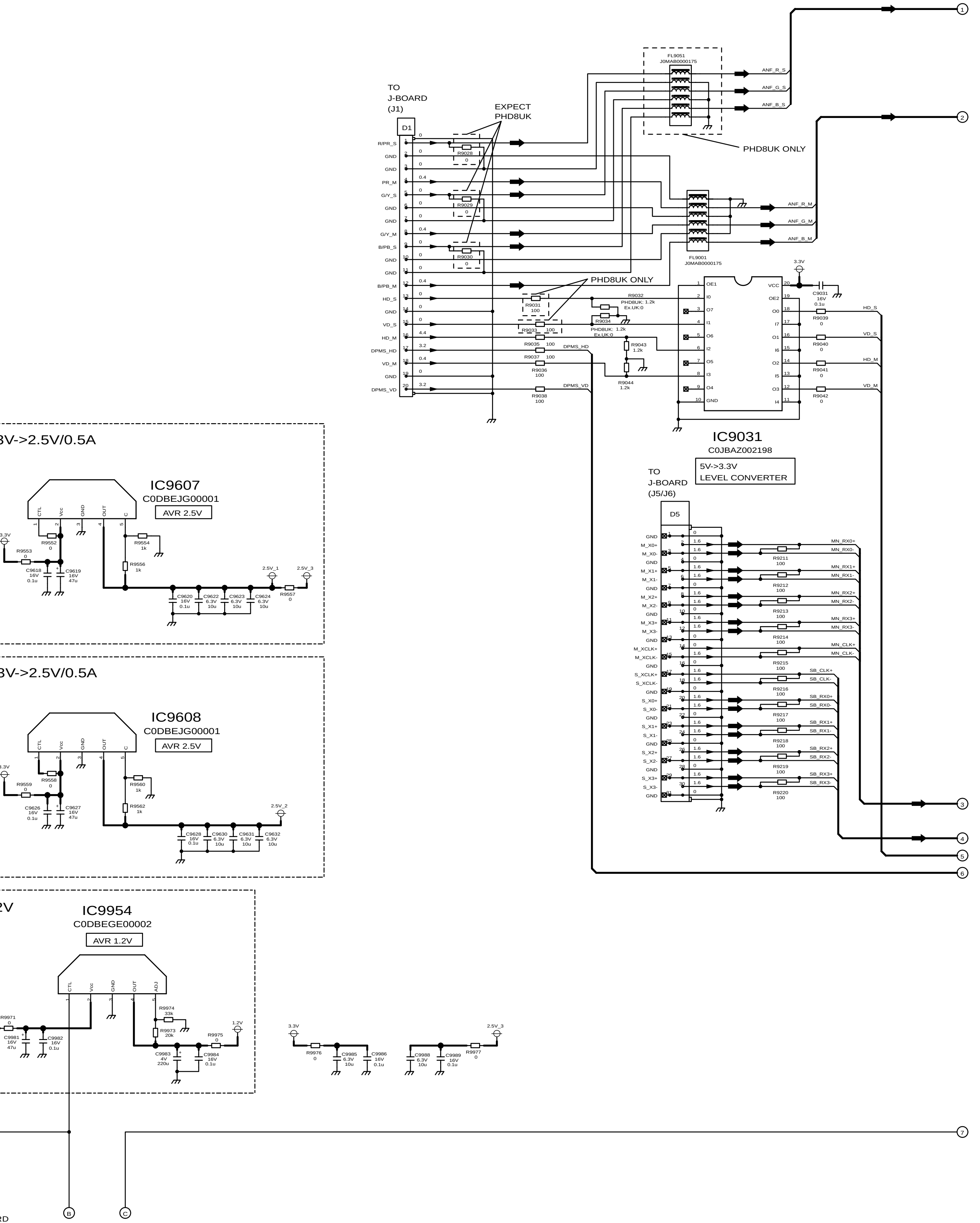
15.22. D-Board (1 of 12) Schematic Diagram

D-BOARD (1/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)



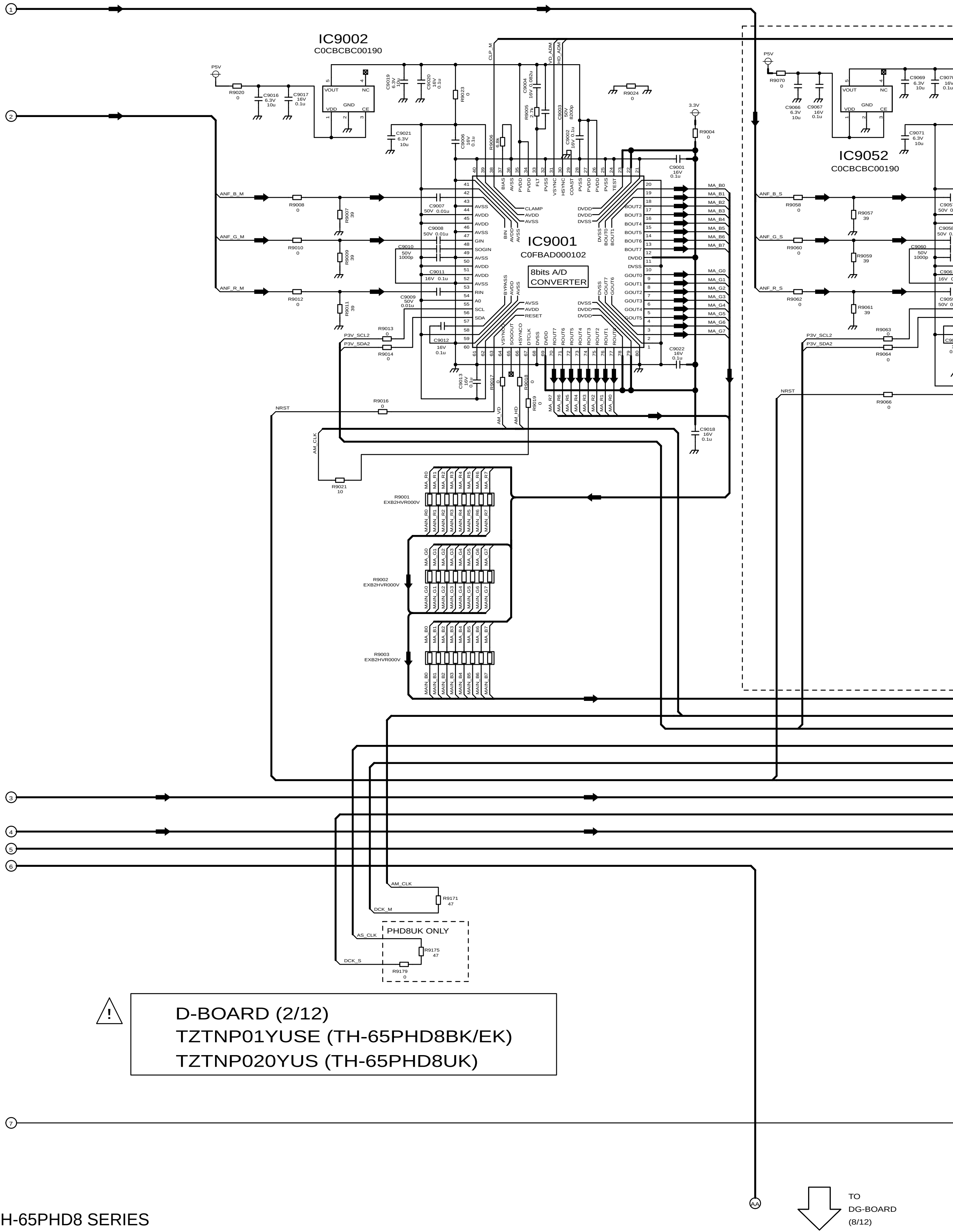
A
B
C
D
E
F
1
2
3
4
5
12V->3.3V/1.4A
12V->1.5V/2.0A
P12V
C9780 25V 220u
R9593 8.2k
R9595 10k
R9596 23.2k
C9611 50V 0.01u
FL9500 F1J1E1040022
Q9502 B1ABMD000004
Q9501 B1MBCDA00002
Q9500 B1MBCDA00002
IC9506
C0DBAHE00017
AVR 3.3V
AVR 1.5V
FB1
INV1
SS1
VCC
VREG1
STB1
STB2
GND
RT
CT
SCP
SS2
INV2
FB2
CS1-
CS1+
EXTR
PGNDC
EXTC
VREG2
EXT1H
EXT1L
PGND
EXT2L
EXT2H
PVCC
CS2+
CS2-
C9644 16V 0.1u
C9637 16V 4.7u
R9606 0
C9614 6.3V 4.7u
R9604 100
R9594 30k
C9613 50V 100p
C9617 16V 0.1u
C9643 16V 0.1u
C9609 50V 0.01u
R9592 8.2k
R9597 47k
R9599 24k
C9646 16V 0.01u
R9603 1k
R9608 0
C9645 16V 1u
C9638 16V 4.7u
D9500 B0JCDD000002
D9501 B0JCDD000002
C9599 25V 4.7u
C9639 16V 4.7u
C9640 16V 4.7u
D9502 B0JCPE000004
L9500 G1C150MA0169
R9610 0.02
C9601 4V 68u
C9515 16V 470u
C9634 16V 0.1u
3.3V
1.5V
C9641 16V 4.7u
C9642 16V 4.7u
D9503 B0JCPE000004
L9501 10u
R9612 0.02
C9603 4V 68u
C9516 16V 470u
C9635 16V 0.1u
D1
D2
G1
G2
S1
S2
3.3V->2.5V/0.5A
CTL
Vcc
GND
OUT
R9552 0
R9553 0
C9618 16V 0.1u
C9619 16V 47u
3.3V->2.5V/0.5A
R9558 0
R9559 0
C9626 16V 0.1u
C9627 16V 47u
1.2V
IC9
C0DBE
AVR
R9971 0
C9981 16V 47u
C9982 16V 0.1u
TO
P-BOARD
(P25)
D25
+12V
+12V
FAN_CONT
GND
GND
GND
+5V
GND
+5V
STBY5V
GND
GND
F_STBY_ON
FAN_SOS
ECO_ON
PS_SOS
PANEL_MAIN_ON
ALL_OFF
RUSH_ON/OFF
KILL_SOS
12.0
12.0
6.7
0
0
0
5.0
0
5.0
5.0
0
0
2.6
0
0
0
3.2
0
0
0
FL9703 F1J1E1040022
FL9704 F1J1E1040022
FL9705 F1J1E1040022
FL9706 F1J1E1040022
C9076 16V 47u
C9373 50V 0.01u
P5V
C9375 16V 47u
C9377 16V 0.1u
STB5V_M
C9379 16V 47u
C9383 16V 0.1u
AA_FAN_CONT
R9891 0
STB_ON
R9892 0
AA_FAN_SOS
R9893 0
R9894 10k
AA_PS_SOS
R9895 0
A_TV_ON/OFF
R9896 0
AA_ALL_OFF1
R9897 0
IC9953
C0DBEJG00001
STB 3.3V
C
R9984 1k
STB5V
STB5V_M
R9981 0
C9991 16V 0.1u
C9992 16V 47u
R9982 0
R9983 1.6k
R9985 0
STB3.3V
C9993 16V 0.1u
C9994 6.3V 10u
A
B
TO
DG-BOARD
(7/12)

TH-65PHD8 SERIES
D-Board (1 of 12) Schematic Diagram

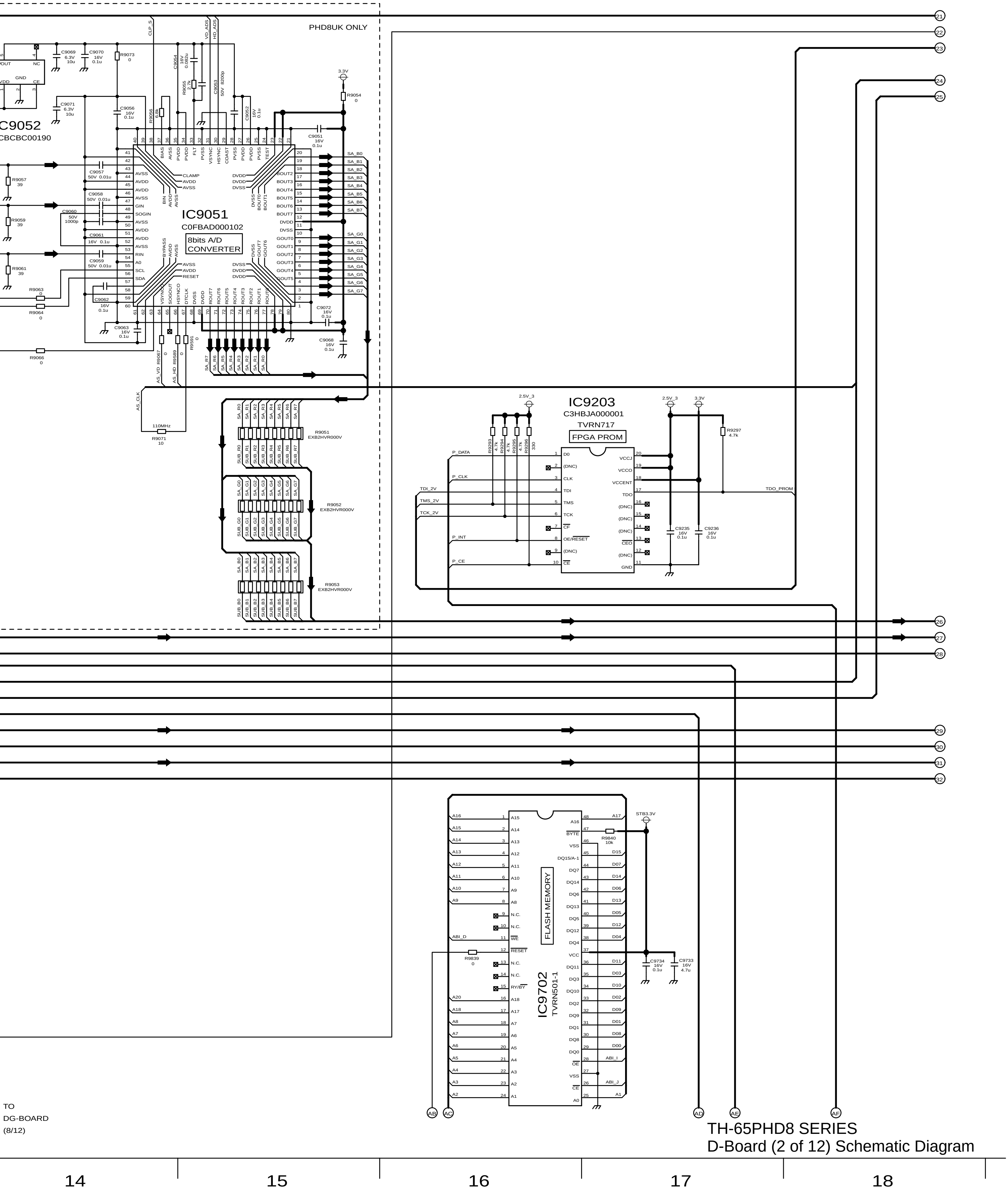

TO
J-BOARD
(J1)
D1
R/PR_S
GND
GND
PR_M
G/Y_S
GND
GND
G/Y_M
B/PB_S
GND
GND
B/PB_M
HD_S
GND
VD_S
HD_M
DPMS_HD
VD_M
GND
DPMS_VD
EXPECT
PHD8UK
R9028
R9029
R9030
R9031
R9033
R9035
R9036
R9037
R9038
FL9051
J0MAB0000175
ANF_R_S
ANF_G_S
ANF_B_S
PHD8UK ONLY
FL9001
J0MAB0000175
ANF_R_M
ANF_G_M
ANF_B_M
PHD8UK ONLY
R9032
PHD8UK: 1.2k
Ex.UK:0
R9034
PHD8UK: 1.2k
Ex.UK:0
R9043
1.2k
R9044
1.2k
DPMS_HD
DPMS_VD
3.3V
C9031
16V
0.1u
R9039
R9040
R9041
R9042
HD_S
VD_S
HD_M
VD_M
IC9031
C0JBAZ002198
5V->3.3V
LEVEL CONVERTER
TO
J-BOARD
(J5/J6)
D5
M_X0+
M_X0-
M_X1+
M_X1-
M_X2+
M_X2-
M_X3+
M_X3-
M_XCLK+
M_XCLK-
S_XCLK+
S_XCLK-
S_X0+
S_X0-
S_X1+
S_X1-
S_X2+
S_X2-
S_X3+
S_X3-
MN_RX0+
MN_RX0-
MN_RX1+
MN_RX1-
MN_RX2+
MN_RX2-
MN_RX3+
MN_RX3-
MN_CLK+
MN_CLK-
SB_CLK+
SB_CLK-
SB_RX0+
SB_RX0-
SB_RX1+
SB_RX1-
SB_RX2+
SB_RX2-
SB_RX3+
SB_RX3-
R9211 100
R9212 100
R9213 100
R9214 100
R9215 100
R9216 100
R9217 100
R9218 100
R9219 100
R9220 100
3V->2.5V/0.5A
IC9607
C0DBEJG00001
AVR 2.5V
CTL
Vcc
GND
OUT
C
R9552
R9553
R9554
R9556
C9618
C9619
C9620
C9622
C9623
C9624
R9557
2.5V_1
2.5V_3
3V->2.5V/0.5A
IC9608
C0DBEJG00001
AVR 2.5V
R9558
R9559
R9560
R9562
C9626
C9627
C9628
C9630
C9631
C9632
2.5V_2
2V
IC9954
C0DBEGE00002
AVR 1.2V
ADJ
R9971
R9973
R9974
R9975
C9981
C9982
C9983
C9984
1.2V
3.3V
R9976
C9985
C9986
C9988
C9989
R9977
2.5V_3
①
②
③
④
⑤
⑥
⑦
B
C
5
6
7
8
9

TH-65PHD8 SERIES
D-Board (1 of 12) Schematic Diagram

15.23. D-Board (2 of 12) Schematic Diagram

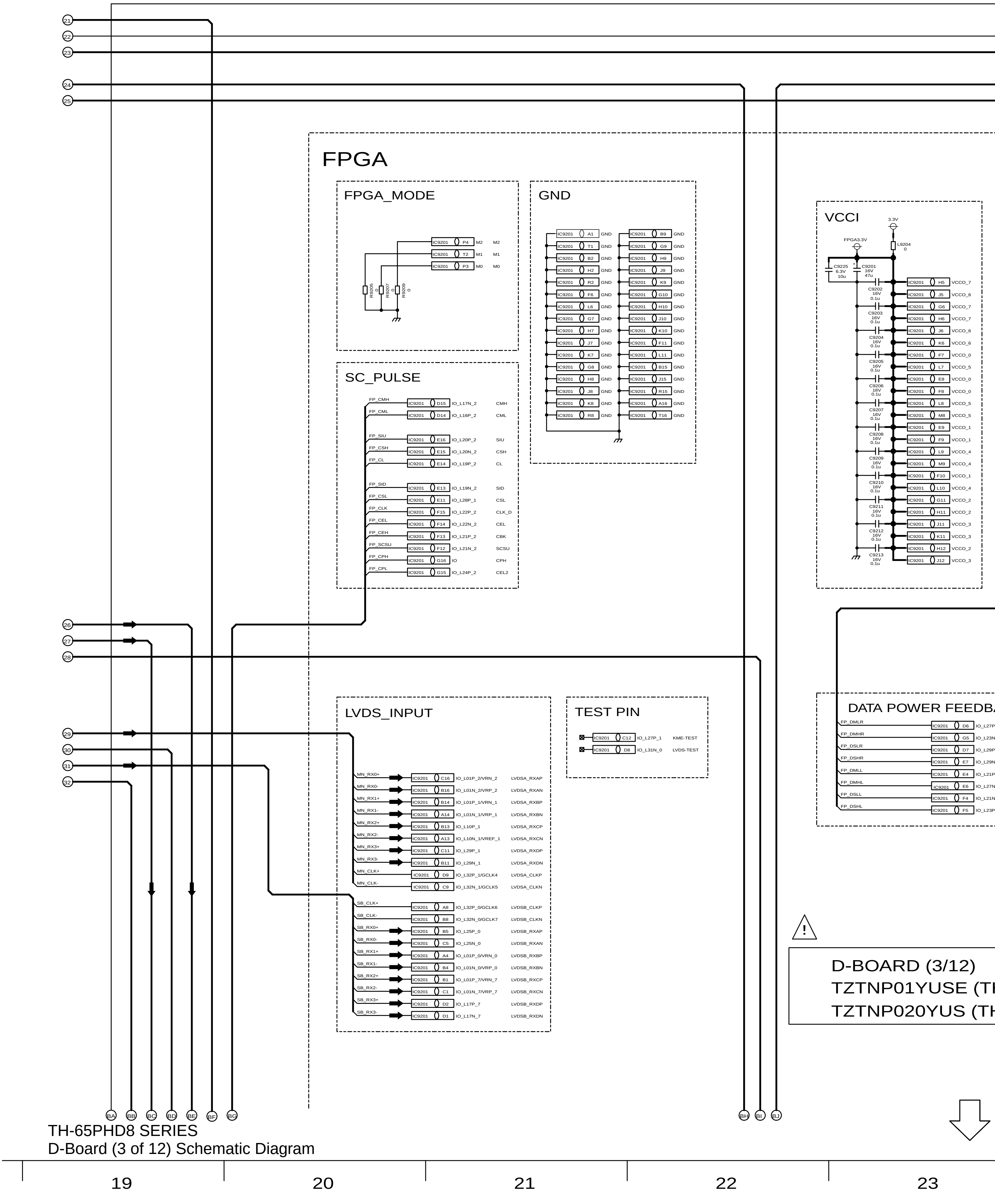

IC9002
C0CBCBC00190
IC9001
C0FBAD000102
8bits A/D
CONVERTER
IC9052
C0CBCBC00190
P5V
3.3V
ANF_B_M
ANF_G_M
ANF_R_M
ANF_B_S
ANF_G_S
ANF_R_S
P3V_SCL2
P3V_SDA2
NRST
AM_CLK
AM_VD
AM_HD
CLP_M
VD_ADM
HD_ADM
R9001
EXB2HVR000V
R9002
EXB2HVR000V
R9003
EXB2HVR000V
AS_CLK
DCK_M
DCK_S
R9171
47
R9175
47
R9179
0
PHD8UK ONLY
AA
TO
DG-BOARD
(8/12)

D-BOARD (2/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

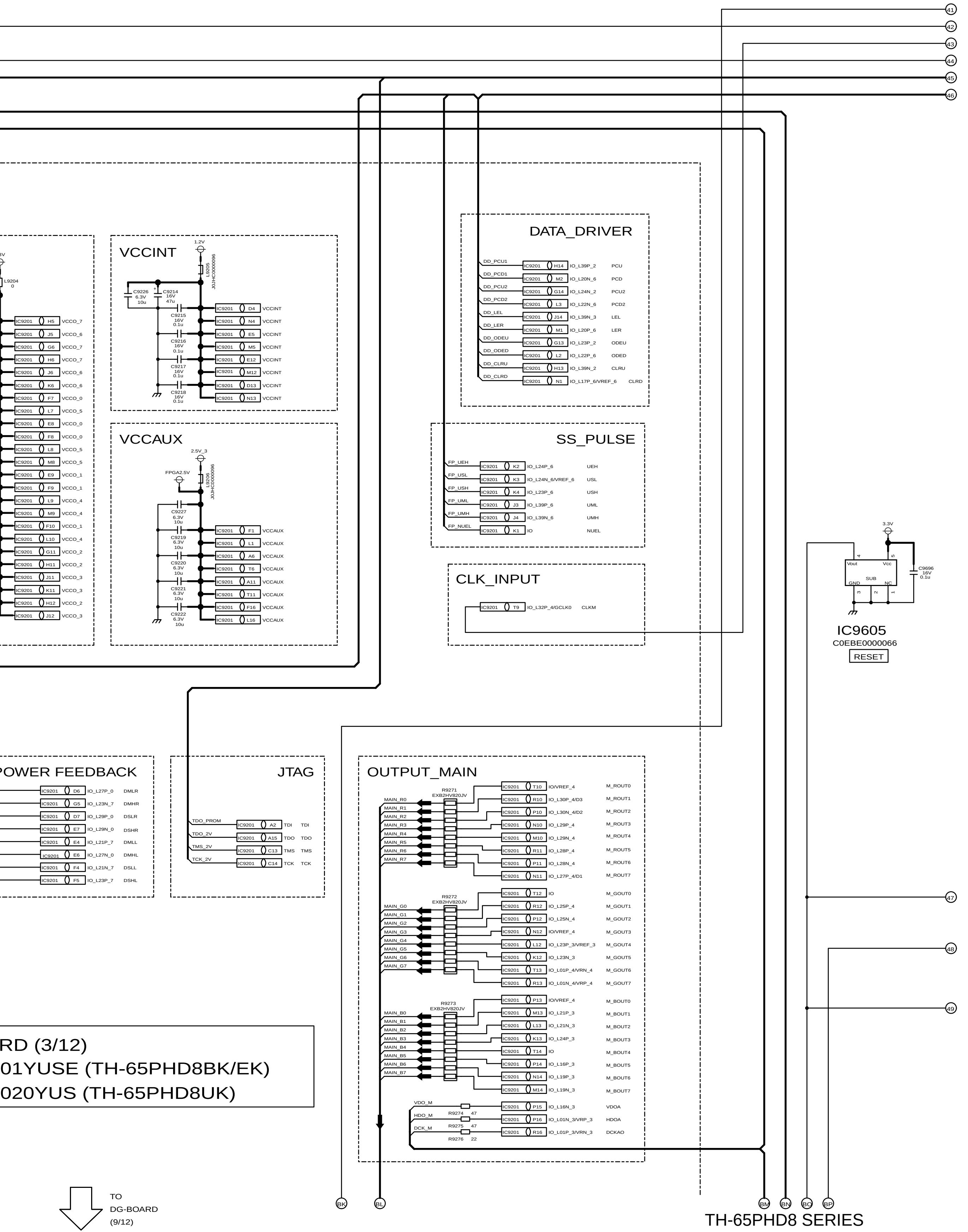

PHD8UK ONLY
C9052
CBCBC00190
IC9051
C0FBAD000102
8bits A/D
CONVERTER
R9051
EXB2HVR000V
R9052
EXB2HVR000V
R9053
EXB2HVR000V
IC9203
C3HBJA000001
TVRN717
FPGA PROM
IC9702
TVRN501-1
FLASH MEMORY
3.3V
2.5V_3
STB3.3V
110MHz
R9071
10
P_DATA
P_CLK
TDI_2V
TMS_2V
TCK_2V
P_INT
P_CE
TDO_PROM
ABI_D
ABI_I
ABI_J
21
22
23
24
25
26
27
28
29
30
31
32
AB
AC
AD
AE
AF
TO
DG-BOARD
(8/12)
14
15
16
17
18

TH-65PHD8 SERIES
D-Board (2 of 12) Schematic Diagram

15.24. D-Board (3 of 12) Schematic Diagram

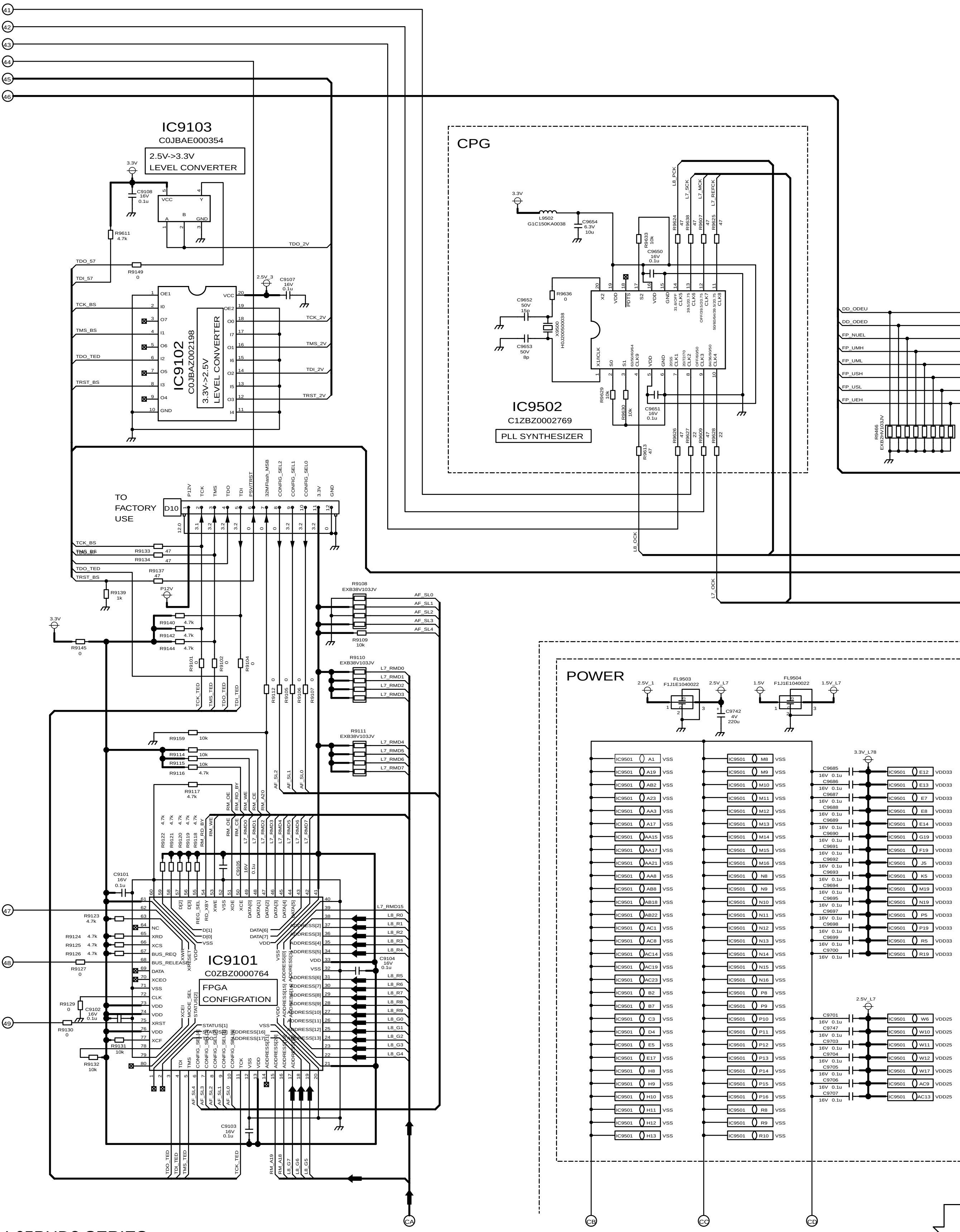

21
22
23
24
25
26
27
28
29
30
31
32
FPGA
FPGA_MODE
IC9201 P4 M2 M2
IC9201 T2 M1 M1
IC9201 P3 M0 M0
R9205 0
R9207 0
R9209 0
GND
IC9201 A1 GND
IC9201 T1 GND
IC9201 B2 GND
IC9201 H2 GND
IC9201 R2 GND
IC9201 F6 GND
IC9201 L6 GND
IC9201 G7 GND
IC9201 H7 GND
IC9201 J7 GND
IC9201 K7 GND
IC9201 G8 GND
IC9201 H8 GND
IC9201 J8 GND
IC9201 K8 GND
IC9201 R8 GND
IC9201 B9 GND
IC9201 G9 GND
IC9201 H9 GND
IC9201 J9 GND
IC9201 K9 GND
IC9201 G10 GND
IC9201 H10 GND
IC9201 J10 GND
IC9201 K10 GND
IC9201 F11 GND
IC9201 L11 GND
IC9201 B15 GND
IC9201 J15 GND
IC9201 R15 GND
IC9201 A16 GND
IC9201 T16 GND
VCCI
3.3V
FPGA3.3V
L9204 0
C9225 6.3V 10u
C9201 16V 47u
C9202 16V 0.1u
C9203 16V 0.1u
C9204 16V 0.1u
C9205 16V 0.1u
C9206 16V 0.1u
C9207 16V 0.1u
C9208 16V 0.1u
C9209 16V 0.1u
C9210 16V 0.1u
C9211 16V 0.1u
C9212 16V 0.1u
C9213 16V 0.1u
IC9201 H5 VCCO_7
IC9201 J5 VCCO_6
IC9201 G6 VCCO_7
IC9201 H6 VCCO_7
IC9201 J6 VCCO_6
IC9201 K6 VCCO_6
IC9201 F7 VCCO_0
IC9201 L7 VCCO_5
IC9201 E8 VCCO_0
IC9201 F8 VCCO_0
IC9201 L8 VCCO_5
IC9201 M8 VCCO_5
IC9201 E9 VCCO_1
IC9201 F9 VCCO_1
IC9201 L9 VCCO_4
IC9201 M9 VCCO_4
IC9201 F10 VCCO_1
IC9201 L10 VCCO_4
IC9201 G11 VCCO_2
IC9201 H11 VCCO_2
IC9201 J11 VCCO_3
IC9201 K11 VCCO_3
IC9201 H12 VCCO_2
IC9201 J12 VCCO_3
SC_PULSE
FP_CMH IC9201 D15 IO_L17N_2 CMH
FP_CML IC9201 D14 IO_L16P_2 CML
FP_SIU IC9201 E16 IO_L20P_2 SIU
FP_CSH IC9201 E15 IO_L20N_2 CSH
FP_CL IC9201 E14 IO_L19P_2 CL
FP_SID IC9201 E13 IO_L19N_2 SID
FP_CSL IC9201 E11 IO_L28P_1 CSL
FP_CLK IC9201 F15 IO_L22P_2 CLK_D
FP_CEL IC9201 F14 IO_L22N_2 CEL
FP_CEH IC9201 F13 IO_L21P_2 CBK
FP_SCSU IC9201 F12 IO_L21N_2 SCSU
FP_CPH IC9201 G16 IO CPH
FP_CPL IC9201 G15 IO_L24P_2 CEL2
LVDS_INPUT
MN_RX0+ IC9201 C16 IO_L01P_2/VRN_2 LVDSA_RXAP
MN_RX0- IC9201 B16 IO_L01N_2/VRP_2 LVDSA_RXAN
MN_RX1+ IC9201 B14 IO_L01P_1/VRN_1 LVDSA_RXBP
MN_RX1- IC9201 A14 IO_L01N_1/VRP_1 LVDSA_RXBN
MN_RX2+ IC9201 B13 IO_L10P_1 LVDSA_RXCP
MN_RX2- IC9201 A13 IO_L10N_1/VREF_1 LVDSA_RXCN
MN_RX3+ IC9201 C11 IO_L29P_1 LVDSA_RXDP
MN_RX3- IC9201 B11 IO_L29N_1 LVDSA_RXDN
MN_CLK+ IC9201 D9 IO_L32P_1/GCLK4 LVDSA_CLKP
MN_CLK- IC9201 C9 IO_L32N_1/GCLK5 LVDSA_CLKN
SB_CLK+ IC9201 A8 IO_L32P_0/GCLK6 LVDSB_CLKP
SB_CLK- IC9201 B8 IO_L32N_0/GCLK7 LVDSB_CLKN
SB_RX0+ IC9201 B5 IO_L25P_0 LVDSB_RXAP
SB_RX0- IC9201 C5 IO_L25N_0 LVDSB_RXAN
SB_RX1+ IC9201 A4 IO_L01P_0/VRN_0 LVDSB_RXBP
SB_RX1- IC9201 B4 IO_L01N_0/VRP_0 LVDSB_RXBN
SB_RX2+ IC9201 B1 IO_L01P_7/VRN_7 LVDSB_RXCP
SB_RX2- IC9201 C1 IO_L01N_7/VRP_7 LVDSB_RXCN
SB_RX3+ IC9201 D2 IO_L17P_7 LVDSB_RXDP
SB_RX3- IC9201 D1 IO_L17N_7 LVDSB_RXDN
TEST PIN
IC9201 C12 IO_L27P_1 KME-TEST
IC9201 D8 IO_L31N_0 LVDS-TEST
DATA POWER FEEDB
FP_DMLR IC9201 D6 IO_L27P
FP_DMHR IC9201 G5 IO_L23N
FP_DSLR IC9201 D7 IO_L29P
FP_DSHR IC9201 E7 IO_L29N
FP_DMLL IC9201 E4 IO_L21P
FP_DMHL IC9201 E6 IO_L27N
FP_DSLL IC9201 F4 IO_L21N
FP_DSHL IC9201 F5 IO_L23P
!
D-BOARD (3/12)
TZTNP01YUSE (T
TZTNP020YUS (T
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
19
20
21
22
23

TH-65PHD8 SERIES
D-Board (3 of 12) Schematic Diagram


41
42
43
44
45
46
VCCINT
1.2V
L9205
J0JHC0000096
C9226 6.3V 10u
C9214 16V 47u
C9215 16V 0.1u
C9216 16V 0.1u
C9217 16V 0.1u
C9218 16V 0.1u
L9204
IC9201 D4 VCCINT
IC9201 N4 VCCINT
IC9201 E5 VCCINT
IC9201 M5 VCCINT
IC9201 E12 VCCINT
IC9201 M12 VCCINT
IC9201 D13 VCCINT
IC9201 N13 VCCINT
IC9201 H5 VCCO_7
IC9201 J5 VCCO_6
IC9201 G6 VCCO_7
IC9201 H6 VCCO_7
IC9201 J6 VCCO_6
IC9201 K6 VCCO_6
IC9201 F7 VCCO_0
IC9201 L7 VCCO_5
IC9201 E8 VCCO_0
IC9201 F8 VCCO_0
IC9201 L8 VCCO_5
IC9201 M8 VCCO_5
IC9201 E9 VCCO_1
IC9201 F9 VCCO_1
IC9201 L9 VCCO_4
IC9201 M9 VCCO_4
IC9201 F10 VCCO_1
IC9201 L10 VCCO_4
IC9201 G11 VCCO_2
IC9201 H11 VCCO_2
IC9201 J11 VCCO_3
IC9201 K11 VCCO_3
IC9201 H12 VCCO_2
IC9201 J12 VCCO_3
VCCAUX
2.5V_3
FPGA2.5V
L9206
J0JHC0000096
C9227 6.3V 10u
C9219 6.3V 10u
C9220 6.3V 10u
C9221 6.3V 10u
C9222 6.3V 10u
IC9201 F1 VCCAUX
IC9201 L1 VCCAUX
IC9201 A6 VCCAUX
IC9201 T6 VCCAUX
IC9201 A11 VCCAUX
IC9201 T11 VCCAUX
IC9201 F16 VCCAUX
IC9201 L16 VCCAUX
DATA_DRIVER
DD_PCU1 IC9201 H14 IO_L39P_2 PCU
DD_PCD1 IC9201 M2 IO_L20N_6 PCD
DD_PCU2 IC9201 G14 IO_L24N_2 PCU2
DD_PCD2 IC9201 L3 IO_L22N_6 PCD2
DD_LEL IC9201 J14 IO_L39N_3 LEL
DD_LER IC9201 M1 IO_L20P_6 LER
DD_ODEU IC9201 G13 IO_L23P_2 ODEU
DD_ODED IC9201 L2 IO_L22P_6 ODED
DD_CLRU IC9201 H13 IO_L39N_2 CLRU
DD_CLRD IC9201 N1 IO_L17P_6/VREF_6 CLRD
SS_PULSE
FP_UEH IC9201 K2 IO_L24P_6 UEH
FP_USL IC9201 K3 IO_L24N_6/VREF_6 USL
FP_USH IC9201 K4 IO_L23P_6 USH
FP_UML IC9201 J3 IO_L39P_6 UML
FP_UMH IC9201 J4 IO_L39N_6 UMH
FP_NUEL IC9201 K1 IO NUEL
CLK_INPUT
IC9201 T9 IO_L32P_4/GCLK0 CLKM
3.3V
Vout Vcc
SUB
GND NC
4 5 3 2 1
C9696 16V 0.1u
IC9605
C0EBE0000066
RESET
POWER FEEDBACK
IC9201 D6 IO_L27P_0 DMLR
IC9201 G5 IO_L23N_7 DMHR
IC9201 D7 IO_L29P_0 DSLR
IC9201 E7 IO_L29N_0 DSHR
IC9201 E4 IO_L21P_7 DMLL
IC9201 E6 IO_L27N_0 DMHL
IC9201 F4 IO_L21N_7 DSLL
IC9201 F5 IO_L23P_7 DSHL
JTAG
TDO_PROM IC9201 A2 TDI TDI
TDO_2V IC9201 A15 TDO TDO
TMS_2V IC9201 C13 TMS TMS
TCK_2V IC9201 C14 TCK TCK
OUTPUT_MAIN
R9271 EXB2HV820JV
MAIN_R0
MAIN_R1
MAIN_R2
MAIN_R3
MAIN_R4
MAIN_R5
MAIN_R6
MAIN_R7
IC9201 T10 IO/VREF_4 M_ROUT0
IC9201 R10 IO_L30P_4/D3 M_ROUT1
IC9201 P10 IO_L30N_4/D2 M_ROUT2
IC9201 N10 IO_L29P_4 M_ROUT3
IC9201 M10 IO_L29N_4 M_ROUT4
IC9201 R11 IO_L28P_4 M_ROUT5
IC9201 P11 IO_L28N_4 M_ROUT6
IC9201 N11 IO_L27P_4/D1 M_ROUT7
R9272 EXB2HV820JV
MAIN_G0
MAIN_G1
MAIN_G2
MAIN_G3
MAIN_G4
MAIN_G5
MAIN_G6
MAIN_G7
IC9201 T12 IO M_GOUT0
IC9201 R12 IO_L25P_4 M_GOUT1
IC9201 P12 IO_L25N_4 M_GOUT2
IC9201 N12 IO/VREF_4 M_GOUT3
IC9201 L12 IO_L23P_3/VREF_3 M_GOUT4
IC9201 K12 IO_L23N_3 M_GOUT5
IC9201 T13 IO_L01P_4/VRN_4 M_GOUT6
IC9201 R13 IO_L01N_4/VRP_4 M_GOUT7
R9273 EXB2HV820JV
MAIN_B0
MAIN_B1
MAIN_B2
MAIN_B3
MAIN_B4
MAIN_B5
MAIN_B6
MAIN_B7
IC9201 P13 IO/VREF_4 M_BOUT0
IC9201 M13 IO_L21P_3 M_BOUT1
IC9201 L13 IO_L21N_3 M_BOUT2
IC9201 K13 IO_L24P_3 M_BOUT3
IC9201 T14 IO M_BOUT4
IC9201 P14 IO_L16P_3 M_BOUT5
IC9201 N14 IO_L19P_3 M_BOUT6
IC9201 M14 IO_L19N_3 M_BOUT7
VDO_M
HDO_M
DCK_M
R9274 47
R9275 47
R9276 22
IC9201 P15 IO_L16N_3 VDOA
IC9201 P16 IO_L01N_3/VRP_3 HDOA
IC9201 R16 IO_L01P_3/VRN_3 DCKAO
47
48
49
TO
DG-BOARD
(9/12)
BK
BL
BM
BN
BO
BP

RD (3/12)
01YUSE (TH-65PHD8BK/EK)
020YUS (TH-65PHD8UK)

15.25. D-Board (4 of 12) Schematic Diagram

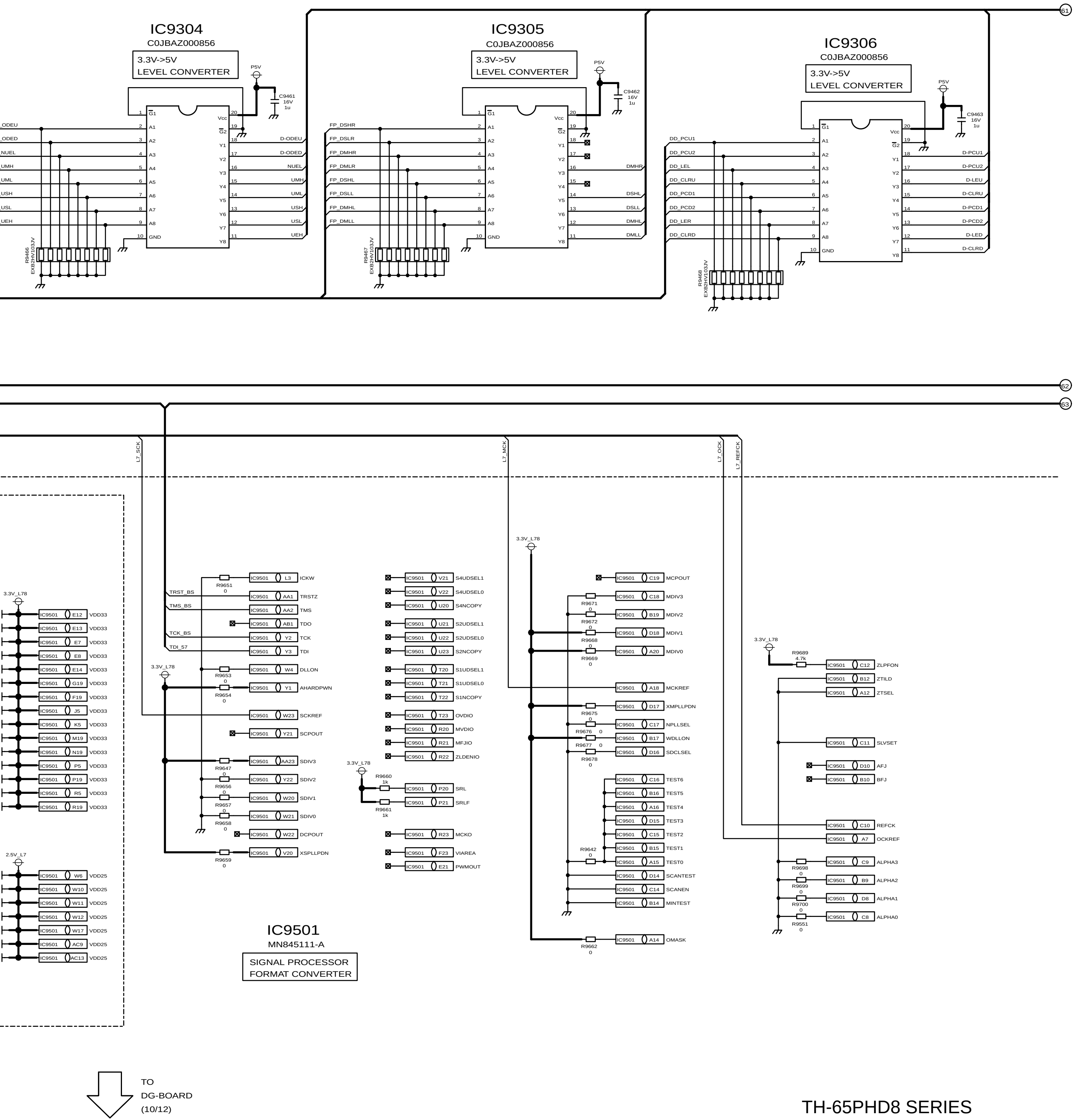


41
42
43
44
45
46
47
48
49
IC9103
C0JBAE000354
2.5V->3.3V
LEVEL CONVERTER
IC9102
C0JBAZ002198
3.3V->2.5V
LEVEL CONVERTER
CPG
IC9502
C1ZBZ0002769
PLL SYNTHESIZER
L9502
G1C150KA0038
TO
FACTORY
USE
D10
IC9101
C0ZBZ0000764
FPGA
CONFIGRATION
POWER
FL9503
F1J1E1040022
FL9504
F1J1E1040022
2.5V_1
2.5V_L7
1.5V
1.5V_L7
3.3V_L78
2.5V_L7
CA
CB
CC
CD

TH-65PHD8 SERIES
D-Board (4 of 12) Schematic Diagram

28	29	30	31	32

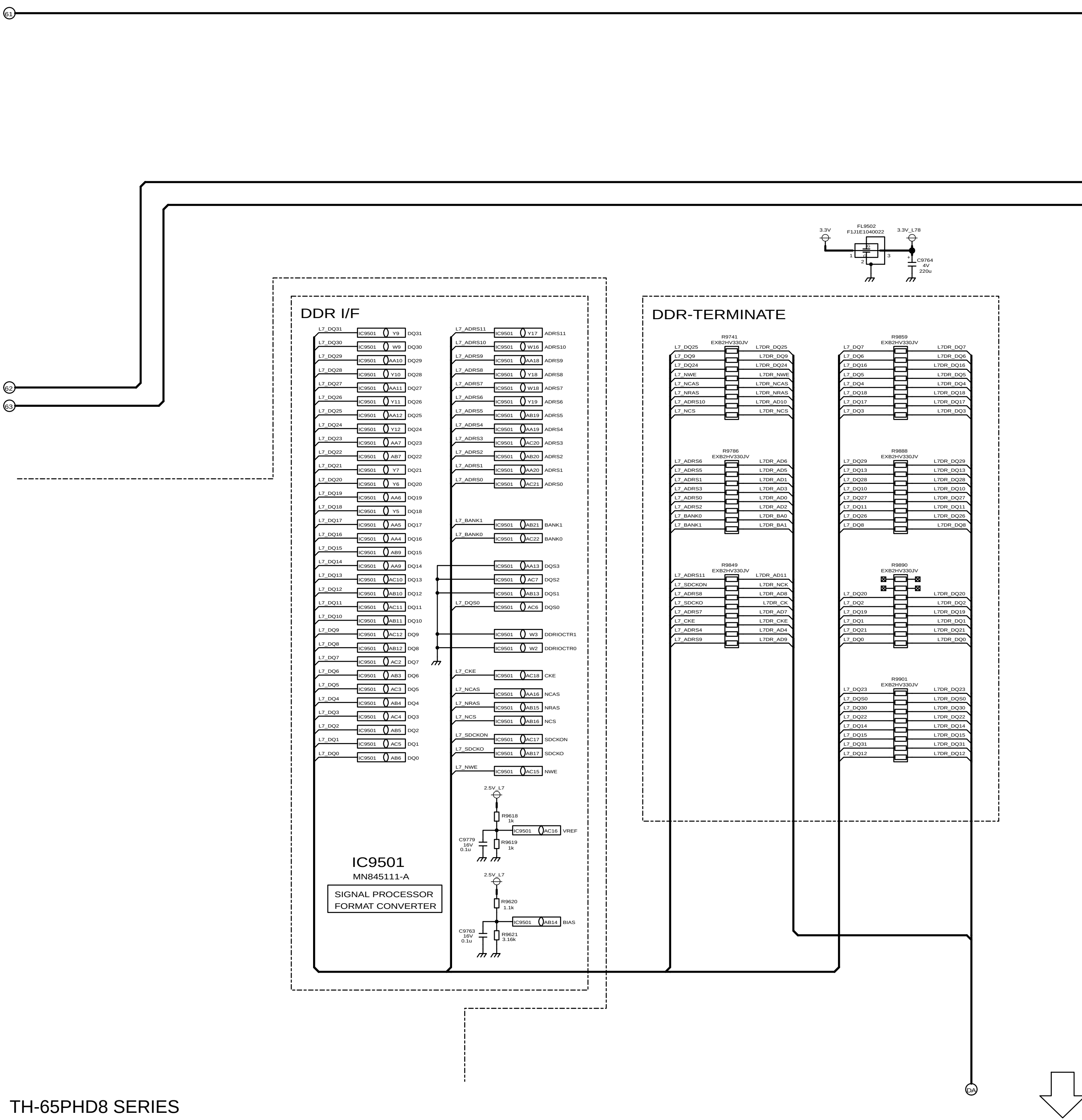
⚠ D-BOARD (4/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


IC9304
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
IC9305
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
IC9306
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
P5V
C9461 16V 1u
C9462 16V 1u
C9463 16V 1u
G1
G2
Vcc
GND
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
D-ODEU
D-ODED
NUEL
UMH
UML
USH
USL
UEH
FP_DSHR
FP_DSLR
FP_DMHR
FP_DMLR
FP_DSHL
FP_DSLL
FP_DMHL
FP_DMLL
DMHR
DSHL
DSLL
DMHL
DMLL
DD_PCU1
DD_PCU2
DD_LEL
DD_CLRU
DD_PCD1
DD_PCD2
DD_LER
DD_CLRD
D-PCU1
D-PCU2
D-LEU
D-CLRU
D-PCD1
D-PCD2
D-LED
D-CLRD
R9466 EXB2HV103JV
R9467 EXB2HV103JV
R9468 EXB2HV103JV
61
62
63
L7_SCK
L7_MCK
L7_OCK
L7_REFCK
3.3V_L78
2.5V_L7
TRST_BS
TMS_BS
TCK_BS
TDI_57
ICKW
TRSTZ
TMS
TDO
TCK
TDI
DLLON
AHARDPWN
SCKREF
SCPOUT
SDIV3
SDIV2
SDIV1
SDIV0
DCPOUT
XSPLLPDN
S4UDSEL1
S4UDSEL0
S4NCOPY
S2UDSEL1
S2UDSEL0
S2NCOPY
S1UDSEL1
S1UDSEL0
S1NCOPY
OVDIO
MVDIO
MFJIO
ZLDENIO
SRL
SRLF
MCKO
VIAREA
PWMOUT
MCPOUT
MDIV3
MDIV2
MDIV1
MDIV0
MCKREF
XMPLLPDN
NPLLSEL
WDLLON
SDCLSEL
TEST6
TEST5
TEST4
TEST3
TEST2
TEST1
TEST0
SCANTEST
SCANEN
MINTEST
OMASK
ZLPFON
ZTILD
ZTSEL
SLVSET
AFJ
BFJ
REFCK
OCKREF
ALPHA3
ALPHA2
ALPHA1
ALPHA0
VDD33
VDD25
R9651 0
R9653 0
R9654 0
R9647 0
R9656 0
R9657 0
R9658 0
R9659 0
R9660 1k
R9661 1k
R9671 0
R9672 0
R9668 0
R9669 0
R9675 0
R9676 0
R9677 0
R9678 0
R9642 0
R9662 0
R9689 4.7k
R9698 0
R9699 0
R9700 0
R9551 0
IC9501
MN845111-A
SIGNAL PROCESSOR FORMAT CONVERTER
TO DG-BOARD (10/12)
32
33
34
35
36

TH-65PHD8 SERIES
D-Board (4 of 12) Schematic Diagram

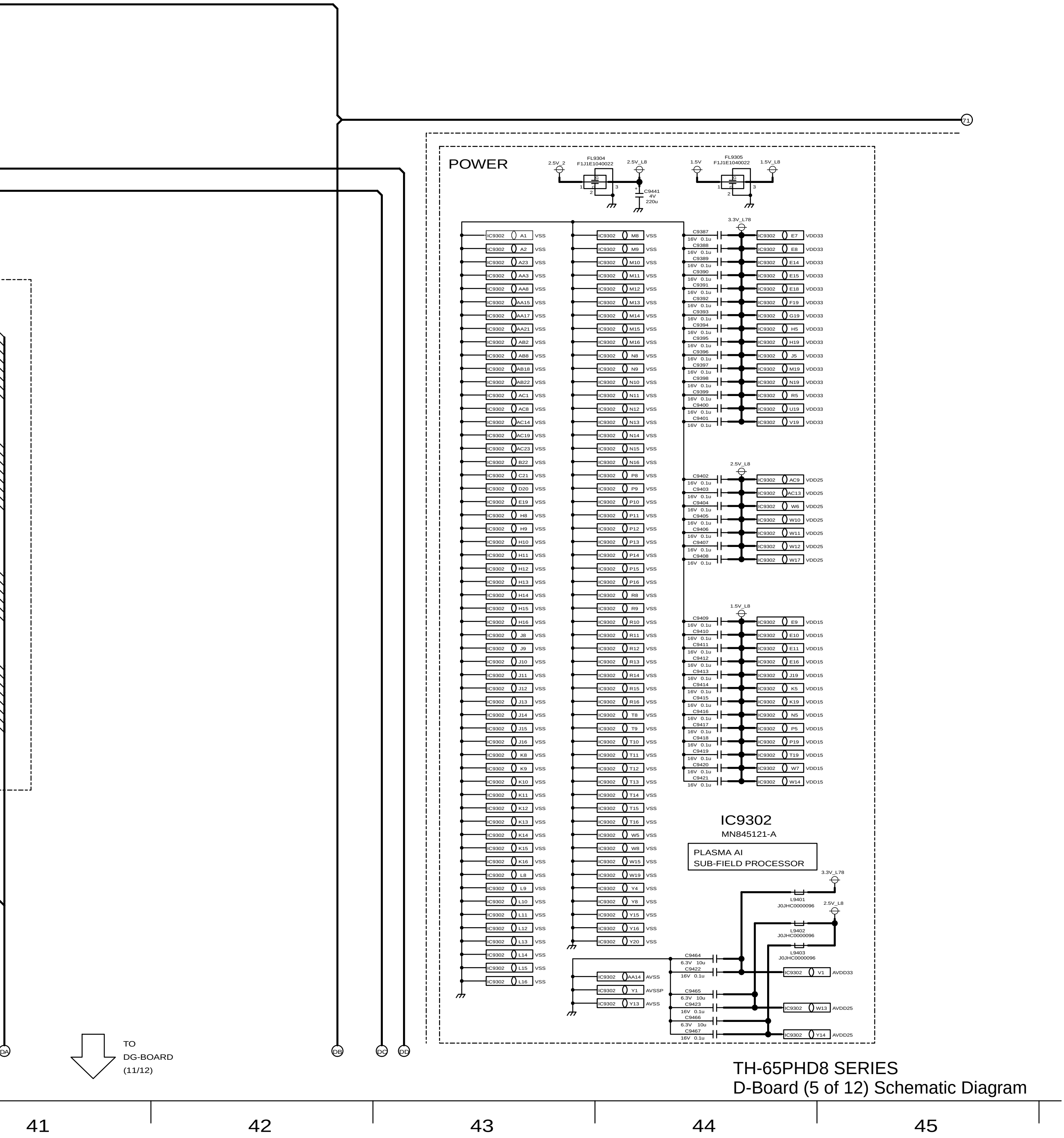
15.26. D-Board (5 of 12) Schematic Diagram

D-BOARD (5/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)


61
62
63
DA
DDR I/F
DDR-TERMINATE
3.3V
FL9502
F1J1E1040022
3.3V_L78
C9764
4V
220u
IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
L7_DQ31 … L7_DQ0
DQ31 … DQ0
L7_ADRS11 … L7_ADRS0
ADRS11 … ADRS0
L7_BANK1
BANK1
L7_BANK0
BANK0
DQS3
DQS2
DQS1
L7_DQS0
DQS0
DDRIOCTR1
DDRIOCTR0
L7_CKE
CKE
L7_NCAS
NCAS
L7_NRAS
NRAS
L7_NCS
NCS
L7_SDCKON
SDCKON
L7_SDCKO
SDCKO
L7_NWE
NWE
2.5V_L7
R9618
1k
R9619
1k
C9779
16V
0.1u
VREF
R9620
1.1k
R9621
3.16k
C9763
16V
0.1u
BIAS
R9741
EXB2HV330JV
R9859
EXB2HV330JV
R9786
EXB2HV330JV
R9888
EXB2HV330JV
R9849
EXB2HV330JV
R9890
EXB2HV330JV
R9901
EXB2HV330JV
L7DR_DQ25
L7DR_DQ9
L7DR_DQ24
L7DR_NWE
L7DR_NCAS
L7DR_NRAS
L7DR_AD10
L7DR_NCS
L7DR_AD6
L7DR_AD5
L7DR_AD1
L7DR_AD3
L7DR_AD0
L7DR_AD2
L7DR_BA0
L7DR_BA1
L7DR_AD11
L7DR_NCK
L7DR_AD8
L7DR_CK
L7DR_AD7
L7DR_CKE
L7DR_AD4
L7DR_AD9
L7DR_DQ7
L7DR_DQ6
L7DR_DQ16
L7DR_DQ5
L7DR_DQ4
L7DR_DQ18
L7DR_DQ17
L7DR_DQ3
L7DR_DQ29
L7DR_DQ13
L7DR_DQ28
L7DR_DQ10
L7DR_DQ27
L7DR_DQ11
L7DR_DQ26
L7DR_DQ8
L7DR_DQ20
L7DR_DQ2
L7DR_DQ19
L7DR_DQ1
L7DR_DQ21
L7DR_DQ0
L7DR_DQ23
L7DR_DQS0
L7DR_DQ30
L7DR_DQ22
L7DR_DQ14
L7DR_DQ15
L7DR_DQ31
L7DR_DQ12

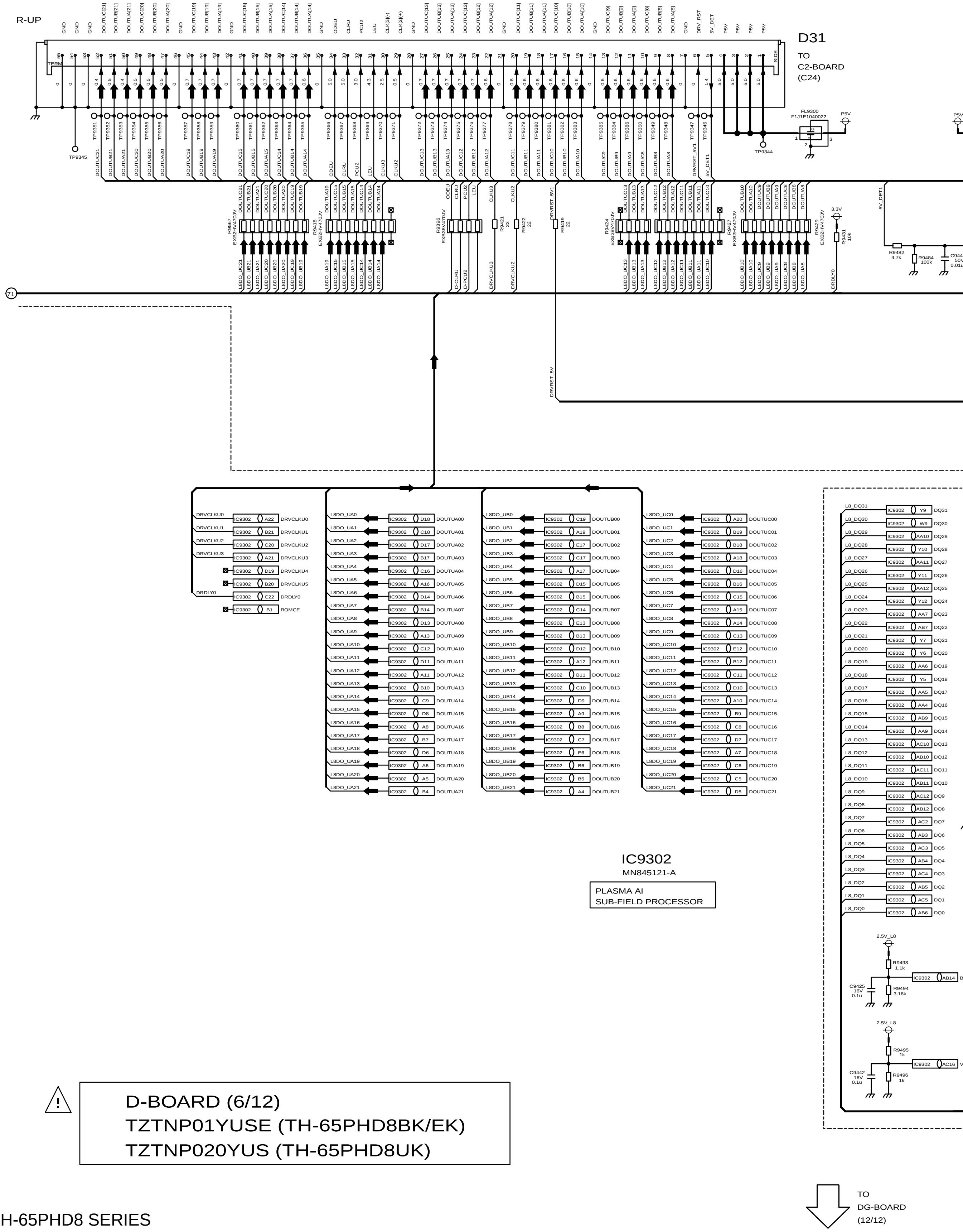
TH-65PHD8 SERIES
D-Board (5 of 12) Schematic Diagram

37 38 39 40 41


POWER
FL9304
F1J1E1040022
2.5V_2
2.5V_L8
C9441
4V
220u
FL9305
F1J1E1040022
1.5V
1.5V_L8
3.3V_L78
IC9302
VSS
VDD33
VDD25
VDD15
AVSS
AVSSP
AVDD33
AVDD25
L9401
J0JHC0000096
L9402
J0JHC0000096
L9403
J0JHC0000096
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
TO
DG-BOARD
(11/12)
71
DA
DB
DC
DD
41
42
43
44
45

TH-65PHD8 SERIES
D-Board (5 of 12) Schematic Diagram

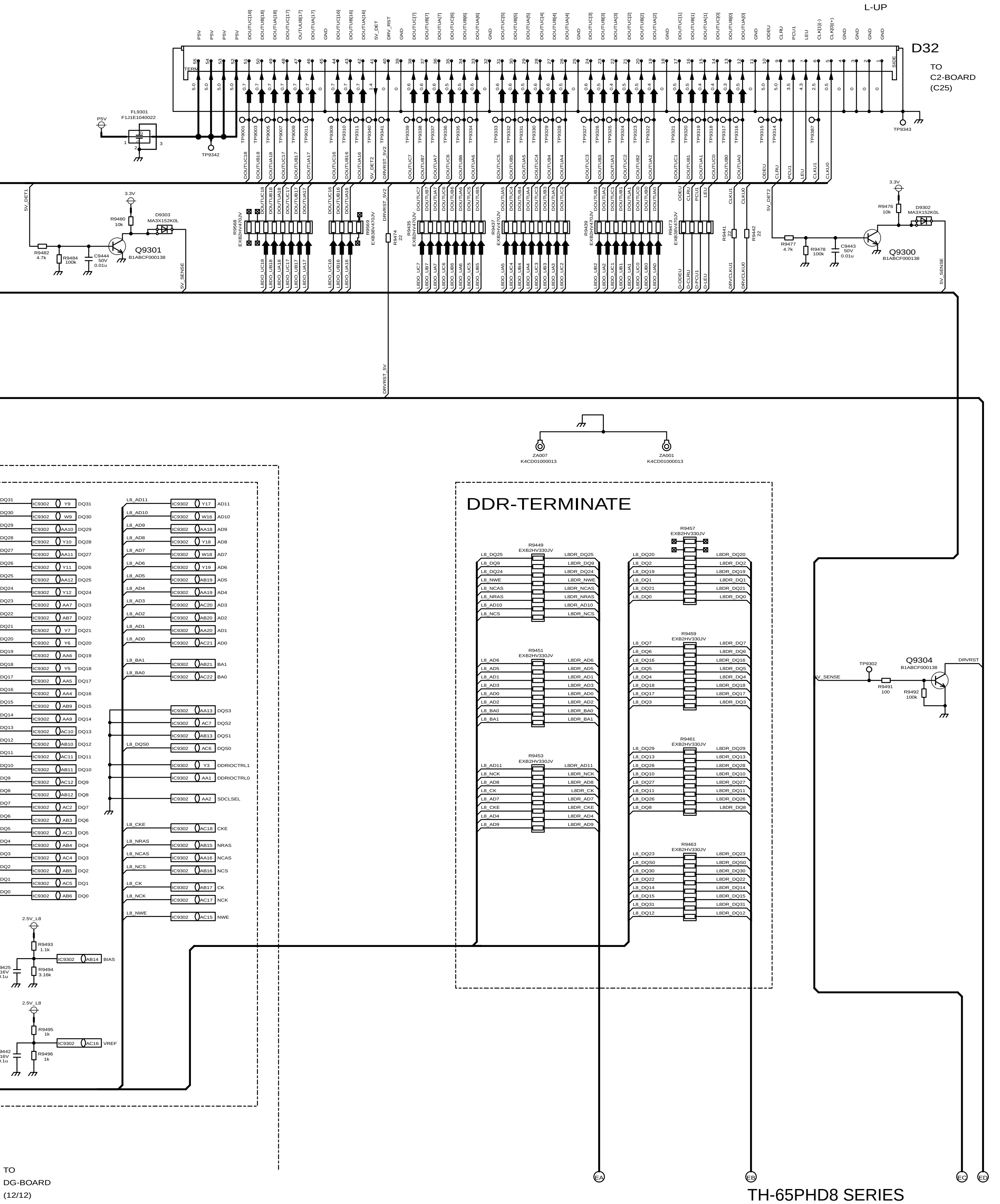
15.27. D-Board (6 of 12) Schematic Diagram


R-UP
D31
TO
C2-BOARD
(C24)
TERM
SIDE
FL9300
F1J1E1040022
P5V
3.3V
TP9344
TP9345
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
2.5V_L8
R9493
1.1k
R9494
3.16k
C9425
16V
0.1u
R9495
1k
R9496
1k
C9442
16V
0.1u
TO
DG-BOARD
(12/12)
71

⚠ D-BOARD (6/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

TH-65PHD8 SERIES
D-Board (6 of 12) Schematic Diagram

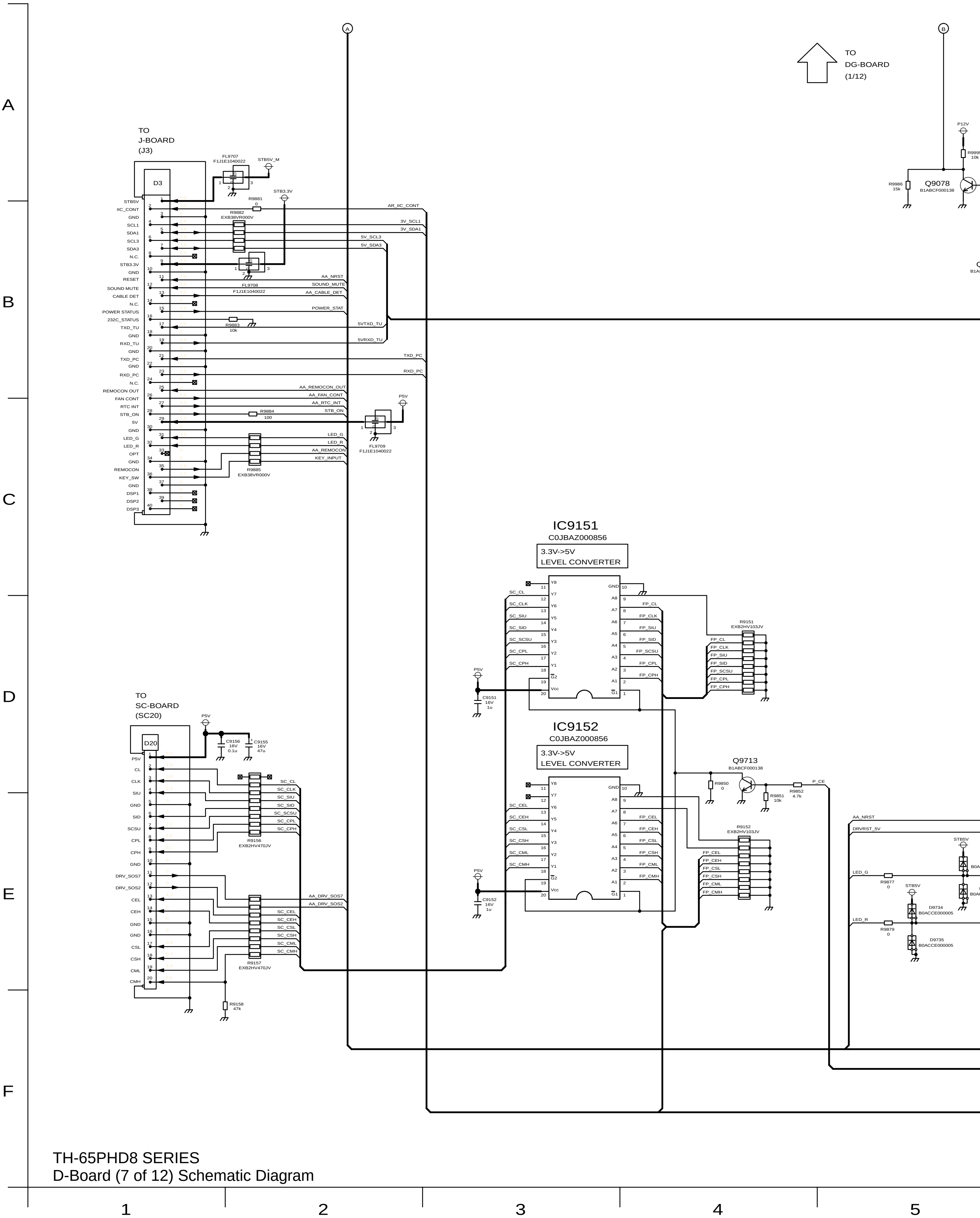
46	47	48	49	50


L-UP
D32
TO
C2-BOARD
(C25)
FL9301
F1J1E1040022
P5V
TP9342
TP9343
3.3V
R9480
10k
D9303
MA3X152K0L
R9482
4.7k
R9484
100k
C9444
50V
0.01u
Q9301
B1ABCF000138
5V_DET1
5V_SENSE
R9568
EXB2HV470JV
R9569
EXB38V470JV
R9474
22
R9435
EXB2HV470JV
R9437
EXB2HV470JV
R9439
EXB2HV470JV
R9473
EXB38V470JV
R9441
22
R9442
22
R9476
10k
D9302
MA3X152K0L
R9477
4.7k
R9478
100k
C9443
50V
0.01u
Q9300
B1ABCF000138
DRVRST_5V
5V_DET2
ZA007
K4CD01000013
ZA001
K4CD01000013
DDR-TERMINATE
R9449
EXB2HV330JV
R9451
EXB2HV330JV
R9453
EXB2HV330JV
R9457
EXB2HV330JV
R9459
EXB2HV330JV
R9461
EXB2HV330JV
R9463
EXB2HV330JV
TP9302
Q9304
B1ABCF000138
DRVRST
R9491
100
R9492
100k
2.5V_L8
R9493
1.1k
R9494
3.16k
BIAS
R9495
1k
R9496
1k
VREF
IC9302
EA
EB
EC
ED
TO
DG-BOARD
(12/12)

TH-65PHD8 SERIES
D-Board (6 of 12) Schematic Diagram

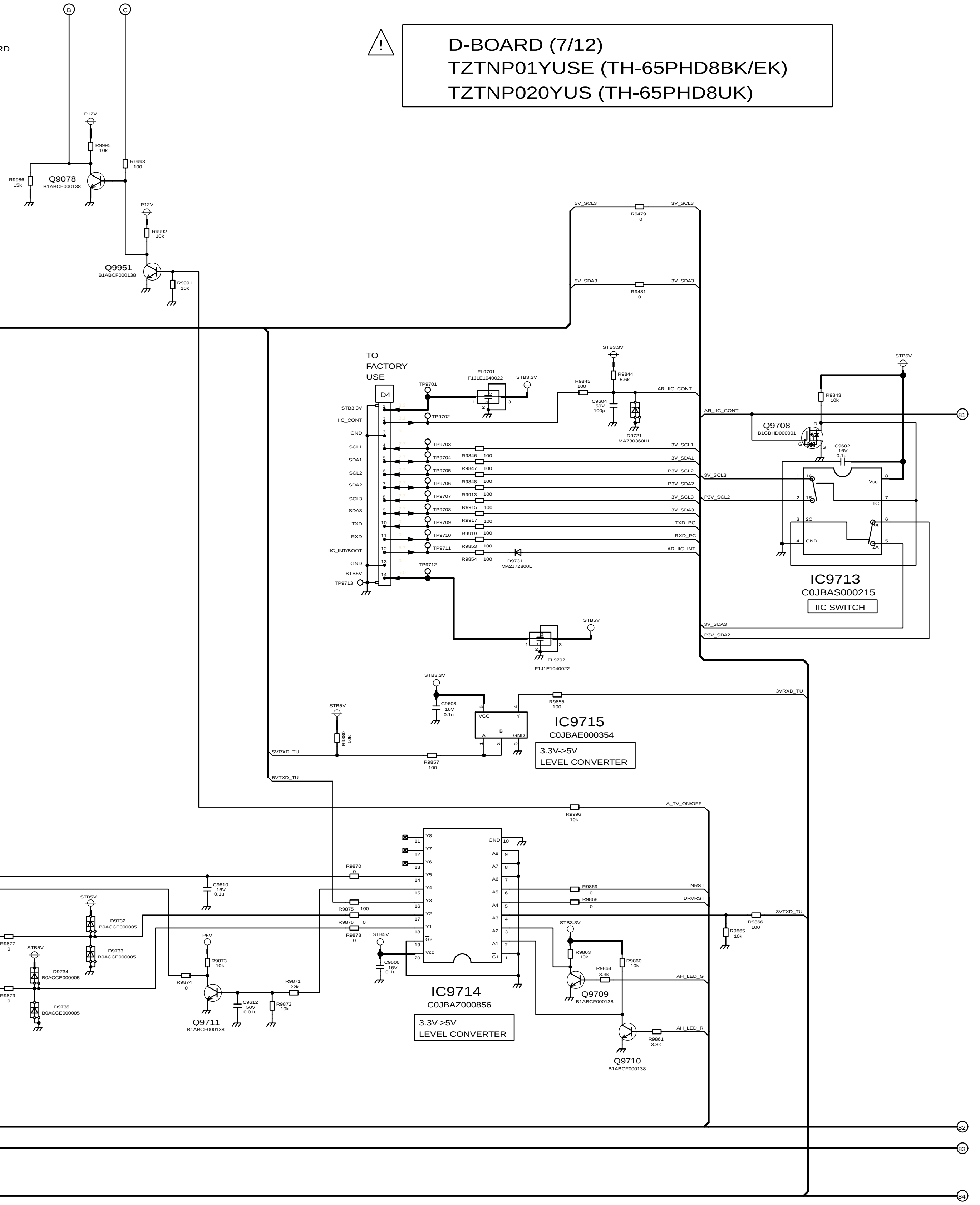
50 51 52 53 54

15.28. D-Board (7 of 12) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
TO
DG-BOARD
(1/12)
TO
J-BOARD
(J3)
D3
STB5V
IIC_CONT
GND
SCL1
SDA1
SCL3
SDA3
N.C.
STB3.3V
GND
RESET
SOUND MUTE
CABLE DET
N.C.
POWER STATUS
232C_STATUS
TXD_TU
GND
RXD_TU
GND
TXD_PC
GND
RXD_PC
N.C.
REMOCON OUT
FAN CONT
RTC INT
STB_ON
5V
GND
LED_G
LED_R
OPT
GND
REMOCON
KEY_SW
GND
DSP1
DSP2
DSP3
FL9707
F1J1E1040022
STB5V_M
STB3.3V
R9881
0
R9882
EXB38VR000V
FL9708
F1J1E1040022
R9883
10k
R9884
100
P5V
FL9709
F1J1E1040022
R9885
EXB38VR000V
AR_IIC_CONT
3V_SCL1
3V_SDA1
5V_SCL3
5V_SDA3
AA_NRST
SOUND_MUTE
AA_CABLE_DET
POWER_STAT
5VTXD_TU
5VRXD_TU
TXD_PC
RXD_PC
AA_REMOCON_OUT
AA_FAN_CONT
AA_RTC_INT
STB_ON
LED_G
LED_R
AA_REMOCON
KEY_INPUT
P12V
R9999
10k
R9986
15k
Q9078
B1ABCF000138
IC9151
C0JBAZ000856
3.3V->5V
LEVEL CONVERTER
IC9152
C0JBAZ000856
3.3V->5V
LEVEL CONVERTER
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
SC_CL
SC_CLK
SC_SIU
SC_SID
SC_SCSU
SC_CPL
SC_CPH
SC_CEL
SC_CEH
SC_CSL
SC_CSH
SC_CML
SC_CMH
FP_CL
FP_CLK
FP_SIU
FP_SID
FP_SCSU
FP_CPL
FP_CPH
FP_CEL
FP_CEH
FP_CSL
FP_CSH
FP_CML
FP_CMH
P5V
C9151
16V
1u
C9152
16V
1u
R9151
EXB2HV103JV
R9152
EXB2HV103JV
Q9713
B1ABCF000138
R9850
0
R9851
10k
R9852
4.7k
P_CE
AA_NRST
DRVRST_5V
STB5V
LED_G
R9877
0
LED_R
R9879
0
D9734
B0ACCE000005
D9735
B0ACCE000005
TO
SC-BOARD
(SC20)
D20
P5V
CL
CLK
SIU
GND
SID
SCSU
CPL
CPH
GND
DRV_SOS7
DRV_SOS2
CEL
CEH
GND
GND
CSL
CSH
CML
CMH
C9156
16V
0.1u
C9155
16V
47u
R9156
EXB2HV470JV
R9157
EXB2HV470JV
AA_DRV_SOS7
AA_DRV_SOS2
R9158
47k

TH-65PHD8 SERIES
D-Board (7 of 12) Schematic Diagram

D-BOARD (7/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

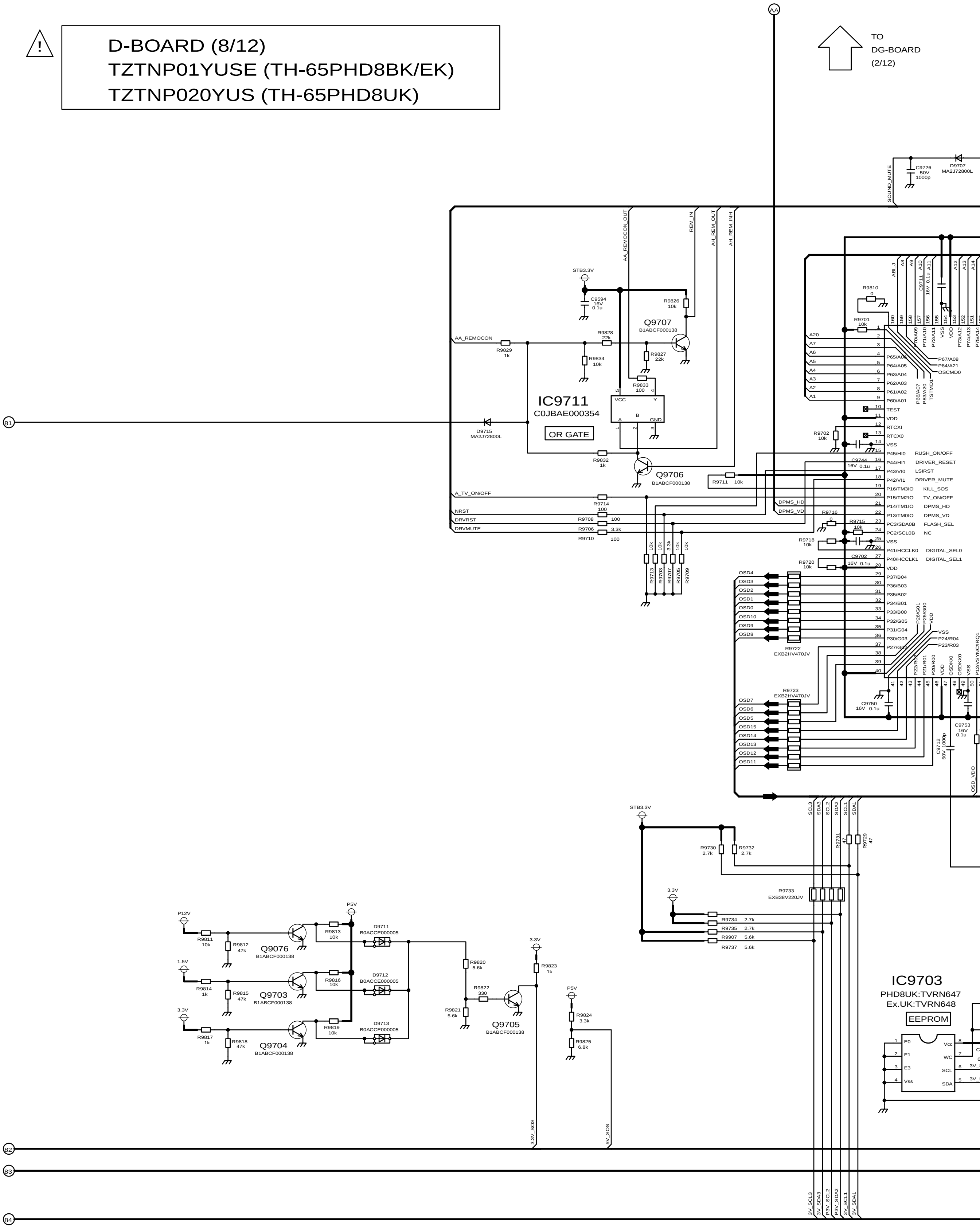


B
C
RD
P12V
R9995 10k
R9993 100
R9986 15k
Q9078 B1ABCF000138
P12V
R9992 10k
Q9951 B1ABCF000138
R9991 10k
5V_SCL3
R9479 0
3V_SCL3
5V_SDA3
R9481 0
3V_SDA3
TO FACTORY USE
D4
STB3.3V
IIC_CONT
GND
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
TXD
RXD
IIC_INT/BOOT
GND
STB5V
TP9713
TP9701
TP9702
TP9703
TP9704
TP9705
TP9706
TP9707
TP9708
TP9709
TP9710
TP9711
TP9712
FL9701 F1J1E1040022
STB3.3V
R9845 100
STB3.3V
R9844 5.6k
C9604 50V 100p
D9721 MAZ30360HL
AR_IIC_CONT
R9846 100
R9847 100
R9848 100
R9913 100
R9915 100
R9917 100
R9919 100
R9853 100
R9854 100
D9731 MA2J72800L
3V_SCL1
3V_SDA1
P3V_SCL2
P3V_SDA2
3V_SCL3
3V_SDA3
TXD_PC
RXD_PC
AR_IIC_INT
STB5V
R9843 10k
AR_IIC_CONT
81
Q9708 B1CBHD000001
C9602 16V 0.1u
3V_SCL3
P3V_SCL2
1A
1B
1C
2C
2B
2A
GND
Vcc
IC9713
C0JBAS000215
IIC SWITCH
3V_SDA3
P3V_SDA2
STB5V
FL9702 F1J1E1040022
STB3.3V
C9608 16V 0.1u
R9855 100
3VRXD_TU
STB5V
R9880 10k
VCC
Y
B
A
GND
IC9715
C0JBAE000354
3.3V->5V LEVEL CONVERTER
5VRXD_TU
R9857 100
5VTXD_TU
A_TV_ON/OFF
R9996 10k
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G2
Vcc
GND
A8
A7
A6
A5
A4
A3
A2
A1
G1
R9870 0
C9610 16V 0.1u
R9875 100
R9876 0
R9878 0
STB5V
C9606 16V 0.1u
R9869 0
NRST
R9868 0
DRVRST
3VTXD_TU
R9866 100
R9865 10k
STB3.3V
R9863 10k
R9860 10k
R9864 3.3k
AH_LED_G
Q9709 B1ABCF000138
AH_LED_R
R9861 3.3k
Q9710 B1ABCF000138
IC9714
C0JBAZ000856
3.3V->5V LEVEL CONVERTER
STB5V
D9732 B0ACCE000005
D9733 B0ACCE000005
R9877 0
STB5V
D9734 B0ACCE000005
R9879 0
D9735 B0ACCE000005
P5V
R9873 10k
R9874 0
Q9711 B1ABCF000138
C9612 50V 0.01u
R9872 10k
R9871 22k
82
83
84

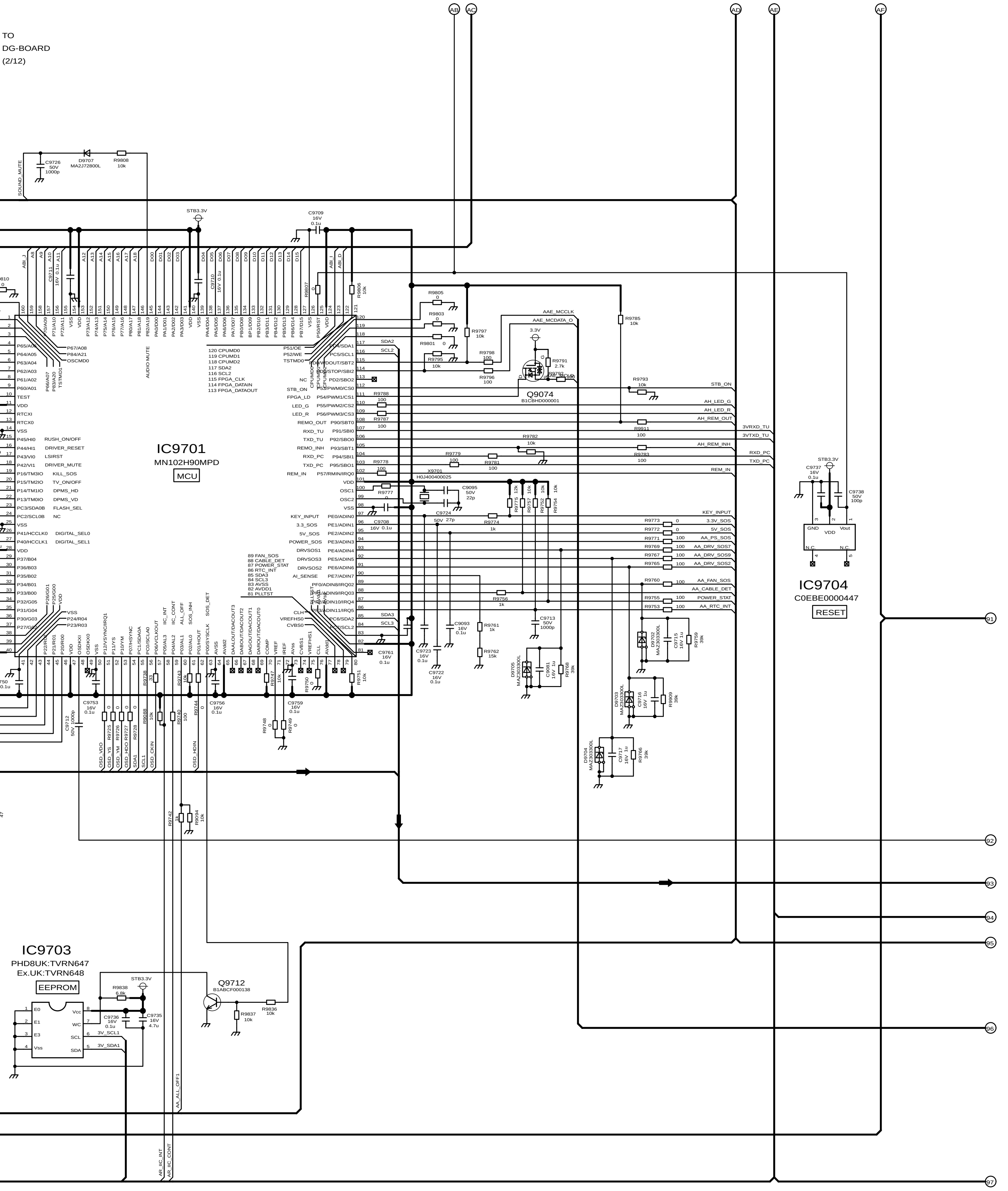
TH-65PHD8 SERIES
D-Board (7 of 12) Schematic Diagram

15.29. D-Board (8 of 12) Schematic Diagram

D-BOARD (8/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

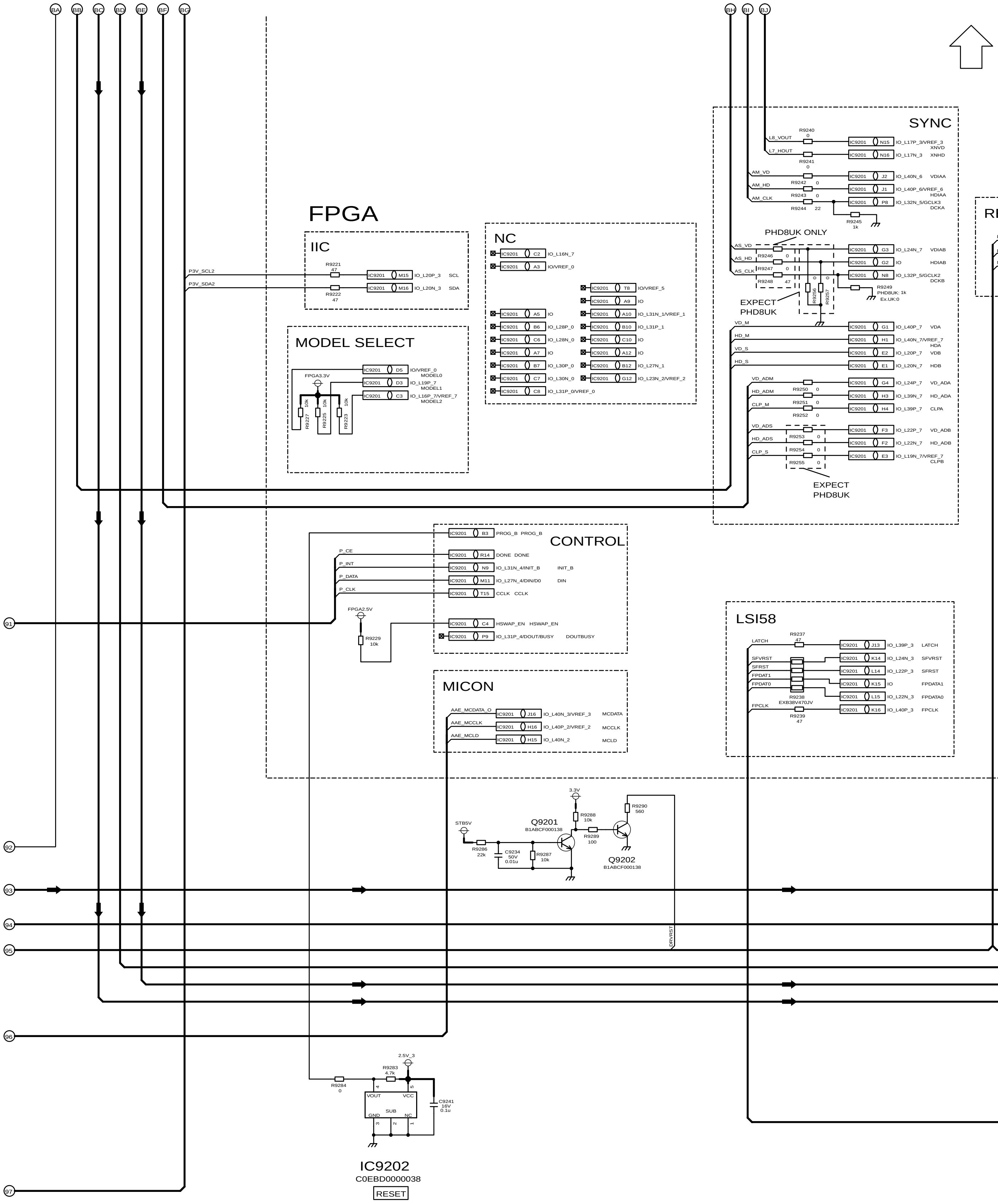


AA
TO
DG-BOARD
(2/12)
SOUND_MUTE
C9726
50V
1000p
D9707
MA2J72800L
AA_REMOCON_OUT
REM_IN
AH_REM_OUT
AH_REM_INH
STB3.3V
C9594
16V
0.1u
R9826
10k
Q9707
B1ABCF000138
R9828
22k
AA_REMOCON
R9829
1k
R9834
10k
R9827
22k
R9833
100
IC9711
C0JBAE000354
OR GATE
VCC
Y
A
B
GND
D9715
MA2J72800L
R9832
1k
Q9706
B1ABCF000138
R9711 10k
A_TV_ON/OFF
R9714
100
NRST
DRVRST
DRVMUTE
R9708 100
R9706 3.3k
R9710 100
R9713
R9703
R9707
R9705
R9709
DPMS_HD
DPMS_VD
R9716
0
R9715
10k
R9718
10k
R9720
10k
C9702
16V 0.1u
C9744
16V 0.1u
R9702
10k
R9810
0
R9701
10k
C9711
16V 0.1u
A20
A7
A6
A5
A4
A3
A2
A1
ABI_J
A8
A9
A10
A11
A12
A13
A14
P65/A06
P64/A05
P63/A04
P62/A03
P61/A02
P60/A01
P67/A08
P84/A21
OSCMD0
TSTMD1
TEST
VDD
RTCXI
RTCX0
VSS
P45/HI0
P44/HI1
P43/VI0
P42/VI1
P16/TM3IO
P15/TM2IO
P14/TM1IO
P13/TM0IO
PC3/SDA0B
PC2/SCL0B
VSS
P41/HCCLK0
P40/HCCLK1
VDD
P37/B04
P36/B03
P35/B02
P34/B01
P33/B00
P32/G05
P31/G04
P30/G03
P27/G02
RUSH_ON/OFF
DRIVER_RESET
LSIRST
DRIVER_MUTE
KILL_SOS
TV_ON/OFF
DPMS_HD
DPMS_VD
FLASH_SEL
NC
DIGITAL_SEL0
DIGITAL_SEL1
VSS
P24/R04
P23/R03
P26/G01
P25/G00
VDD
P22/R02
P21/R01
P20/R00
VDD
OSDXI
OSDXO
VSS
P12/VSYNC/IRQ1
OSD4
OSD3
OSD2
OSD1
OSD0
OSD10
OSD9
OSD8
R9722
EXB2HV470JV
R9723
EXB2HV470JV
OSD7
OSD6
OSD5
OSD15
OSD14
OSD13
OSD12
OSD11
C9750
16V 0.1u
C9712
50V 1000p
C9753
16V
0.1u
OSD_VDD
SCL3
SDA3
SDA2
SCL2
SCL1
SDA1
R9730
2.7k
R9732
2.7k
R9731
47
R9729
47
R9733
EXB38V220JV
3.3V
R9734 2.7k
R9735 2.7k
R9907 5.6k
R9737 5.6k
IC9703
PHD8UK:TVRN647
Ex.UK:TVRN648
EEPROM
E0
E1
E3
Vss
Vcc
WC
SCL
SDA
3V_S
P12V
R9811
10k
R9812
47k
Q9076
B1ABCF000138
P5V
R9813
10k
D9711
B0ACCE000005
1.5V
R9814
1k
R9815
47k
Q9703
B1ABCF000138
R9816
10k
D9712
B0ACCE000005
3.3V
R9817
1k
R9818
47k
Q9704
B1ABCF000138
R9819
10k
D9713
B0ACCE000005
R9820
5.6k
R9821
5.6k
R9822
330
Q9705
B1ABCF000138
R9823
1k
R9824
3.3k
R9825
6.8k
3.3V_SOS
5V_SOS
81
82
83
84
3V_SCL3
3V_SDA3
P3V_SDA2
P3V_SCL2
3V_SCL1
3V_SDA1

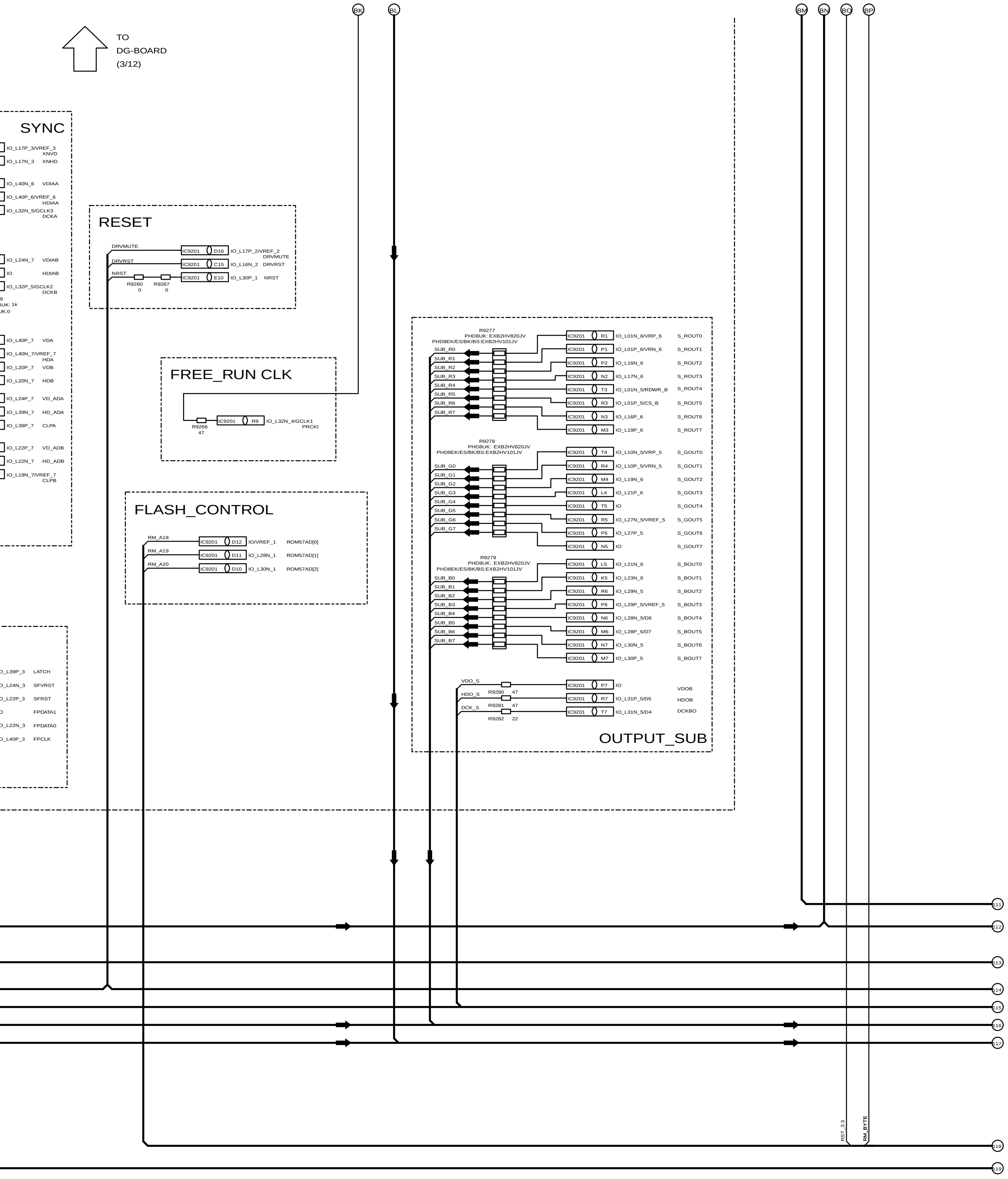

TO
DG-BOARD
(2/12)
AB
AC
AD
AE
AF
IC9701
MN102H90MPD
MCU
IC9704
C0EBE0000447
RESET
IC9703
PHD8UK:TVRN647
Ex.UK:TVRN648
EEPROM
Q9074
B1CBHD000001
Q9712
B1ABCF000138
X9701
H0J400400025
STB3.3V
SOUND_MUTE
D9707
MA2J72800L
R9808
10k
C9726
50V
1000p
C9709
16V
0.1u
AAE_MCCLK
AAE_MCDATA_O
STB_ON
AH_LED_G
AH_LED_R
AH_REM_OUT
3VRXD_TU
3VTXD_TU
AH_REM_INH
RXD_PC
TXD_PC
REM_IN
KEY_INPUT
3.3V_SOS
5V_SOS
AA_PS_SOS
AA_DRV_SOS7
AA_DRV_SOS9
AA_DRV_SOS2
AA_FAN_SOS
AA_CABLE_DET
POWER_STB
AA_RTC_INT
3V_SCL1
3V_SDA1
AA_ALL_OFF1
AR_IIC_INT
AR_IIC_CONT
OSD_VDO
OSD_YS
OSD_YM
OSD_HDO
SDA1
SCL1
OSD_CKIN
OSD_HDIN
91
92
93
94
95
96
97

TH-65PHD8 SERIES
D-Board (8 of 12) Schematic Diagram

15.30. D-Board (9 of 12) Schematic Diagram

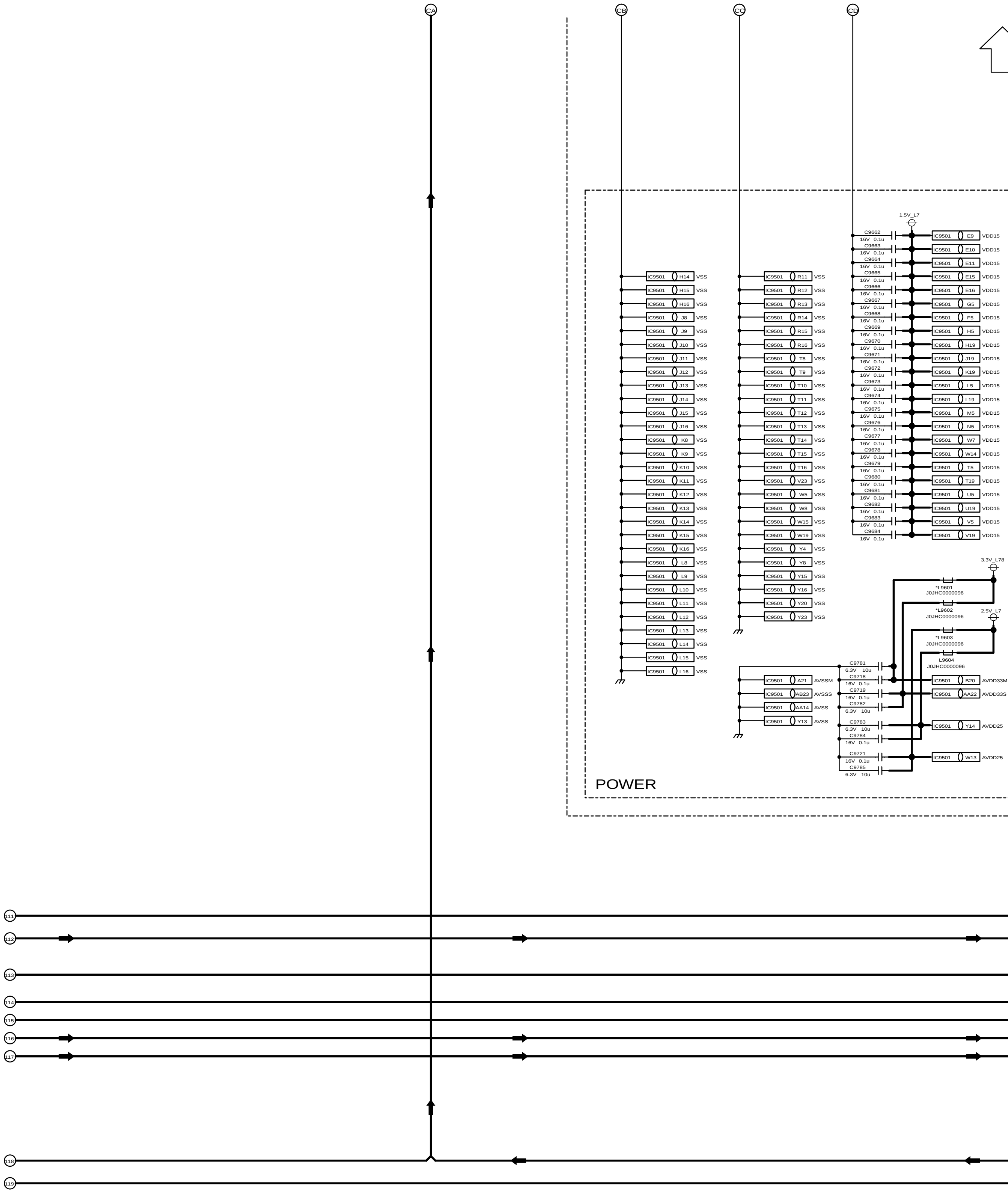

BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
FPGA
IIC
P3V_SCL2
P3V_SDA2
R9221 47
R9222 47
IC9201 M15 IO_L20P_3 SCL
IC9201 M16 IO_L20N_3 SDA
MODEL SELECT
FPGA3.3V
IC9201 D5 IO/VREF_0 MODEL0
IC9201 D3 IO_L19P_7 MODEL1
IC9201 C3 IO_L16P_7/VREF_7 MODEL2
R9227 10k
R9225 10k
R9223 10k
NC
IC9201 C2 IO_L16N_7
IC9201 A3 IO/VREF_0
IC9201 T8 IO/VREF_5
IC9201 A9 IO
IC9201 A5 IO
IC9201 A10 IO_L31N_1/VREF_1
IC9201 B6 IO_L28P_0
IC9201 B10 IO_L31P_1
IC9201 C6 IO_L28N_0
IC9201 C10 IO
IC9201 A7 IO
IC9201 A12 IO
IC9201 B7 IO_L30P_0
IC9201 B12 IO_L27N_1
IC9201 C7 IO_L30N_0
IC9201 G12 IO_L23N_2/VREF_2
IC9201 C8 IO_L31P_0/VREF_0
SYNC
L8_VOUT
L7_HOUT
R9240 0
R9241 0
IC9201 N15 IO_L17P_3/VREF_3 XNVD
IC9201 N16 IO_L17N_3 XNHD
AM_VD
AM_HD
AM_CLK
R9242 0
R9243 0
R9244 22
R9245 1k
IC9201 J2 IO_L40N_6 VDIAA
IC9201 J1 IO_L40P_6/VREF_6 HDIAA
IC9201 P8 IO_L32N_5/GCLK3 DCKA
PHD8UK ONLY
AS_VD
AS_HD
AS_CLK
R9246 0
R9247 0
R9248 47
R9256 0
R9257 0
R9249 PHD8UK: 1k Ex.UK:0
IC9201 G3 IO_L24N_7 VDIAB
IC9201 G2 IO HDIAB
IC9201 N8 IO_L32P_5/GCLK2 DCKB
EXPECT PHD8UK
VD_M
HD_M
VD_S
HD_S
IC9201 G1 IO_L40P_7 VDA
IC9201 H1 IO_L40N_7/VREF_7 HDA
IC9201 E2 IO_L20P_7 VDB
IC9201 E1 IO_L20N_7 HDB
VD_ADM
HD_ADM
CLP_M
R9250 0
R9251 0
R9252 0
IC9201 G4 IO_L24P_7 VD_ADA
IC9201 H3 IO_L39N_7 HD_ADA
IC9201 H4 IO_L39P_7 CLPA
VD_ADS
HD_ADS
CLP_S
R9253 0
R9254 0
R9255 0
IC9201 F3 IO_L22P_7 VD_ADB
IC9201 F2 IO_L22N_7 HD_ADB
IC9201 E3 IO_L19N_7/VREF_7 CLPB
EXPECT PHD8UK
CONTROL
IC9201 B3 PROG_B PROG_B
P_CE
P_INT
P_DATA
P_CLK
IC9201 R14 DONE DONE
IC9201 N9 IO_L31N_4/INIT_B INIT_B
IC9201 M11 IO_L27N_4/DIN/D0 DIN
IC9201 T15 CCLK CCLK
FPGA2.5V
R9229 10k
IC9201 C4 HSWAP_EN HSWAP_EN
IC9201 P9 IO_L31P_4/DOUT/BUSY DOUTBUSY
MICON
AAE_MCDATA_O
AAE_MCCLK
AAE_MCLD
IC9201 J16 IO_L40N_3/VREF_3 MCDATA
IC9201 H16 IO_L40P_2/VREF_2 MCCLK
IC9201 H15 IO_L40N_2 MCLD
LSI58
LATCH
R9237 47
SFVRST
SFRST
FPDAT1
FPDAT0
FPCLK
R9238 EXB38V470JV
R9239 47
IC9201 J13 IO_L39P_3 LATCH
IC9201 K14 IO_L24N_3 SFVRST
IC9201 L14 IO_L22P_3 SFRST
IC9201 K15 IO FPDATA1
IC9201 L15 IO_L22N_3 FPDATA0
IC9201 K16 IO_L40P_3 FPCLK
3.3V
STB5V
R9288 10k
R9290 560
Q9201 B1ABCF000138
R9289 100
Q9202 B1ABCF000138
R9286 22k
C9234 50V 0.01u
R9287 10k
DRVRST
2.5V_3
R9283 4.7k
R9284 0
VOUT
VCC
SUB
GND
NC
C9241 16V 0.1u
IC9202
C0EBD0000038
RESET
RI
91
92
93
94
95
96
97
19
20
21
22
23

TH-65PHD8 SERIES
D-Board (9 of 12) Schematic Diagram


TO
DG-BOARD
(3/12)
BK
BL
BM
BN
BO
BP
SYNC
IO_L17P_3/VREF_3
XNVD
IO_L17N_3
XNHD
IO_L40N_6
VDIAA
IO_L40P_6/VREF_6
HDIAA
IO_L32N_5/GCLK3
DCKA
IO_L24N_7
VDIAB
IO
HDIAB
IO_L32P_5/GCLK2
DCKB
IO_L40P_7
VDA
IO_L40N_7/VREF_7
HDA
IO_L20P_7
VDB
IO_L20N_7
HDB
IO_L24P_7
VD_ADA
IO_L39N_7
HD_ADA
IO_L39P_7
CLPA
IO_L22P_7
VD_ADB
IO_L22N_7
HD_ADB
IO_L19N_7/VREF_7
CLPB
RESET
DRVMUTE
DRVRST
NRST
IC9201
D16
IO_L17P_2/VREF_2
DRVMUTE
C15
IO_L16N_2
DRVRST
E10
IO_L30P_1
NRST
R9260
0
R9267
0
FREE_RUN CLK
R9266
47
R9
IO_L32N_4/GCLK1
PRCKI
FLASH_CONTROL
RM_A18
RM_A19
RM_A20
D12
IO/VREF_1
ROM57AD[0]
D11
IO_L28N_1
ROM57AD[1]
D10
IO_L30N_1
ROM57AD[2]
L39P_3
LATCH
L24N_3
SFVRST
L22P_3
SFRST
FPDATA1
L22N_3
FPDATA0
L40P_3
FPCLK
R9277
PHD8UK: EXB2HV820JV
PHD8EK/ES/BK/BS:EXB2HV101JV
SUB_R0
SUB_R1
SUB_R2
SUB_R3
SUB_R4
SUB_R5
SUB_R6
SUB_R7
R1
IO_L01N_6/VRP_6
S_ROUT0
P1
IO_L01P_6/VRN_6
S_ROUT1
P2
IO_L16N_6
S_ROUT2
N2
IO_L17N_6
S_ROUT3
T3
IO_L01N_5/RDWR_B
S_ROUT4
R3
IO_L01P_5/CS_B
S_ROUT5
N3
IO_L16P_6
S_ROUT6
M3
IO_L19P_6
S_ROUT7
R9278
PHD8UK: EXB2HV820JV
PHD8EK/ES/BK/BS:EXB2HV101JV
SUB_G0
SUB_G1
SUB_G2
SUB_G3
SUB_G4
SUB_G5
SUB_G6
SUB_G7
T4
IO_L10N_5/VRP_5
S_GOUT0
R4
IO_L10P_5/VRN_5
S_GOUT1
M4
IO_L19N_6
S_GOUT2
L4
IO_L21P_6
S_GOUT3
T5
IO
S_GOUT4
R5
IO_L27N_5/VREF_5
S_GOUT5
P5
IO_L27P_5
S_GOUT6
N5
IO
S_GOUT7
R9279
PHD8UK: EXB2HV820JV
PHD8EK/ES/BK/BS:EXB2HV101JV
SUB_B0
SUB_B1
SUB_B2
SUB_B3
SUB_B4
SUB_B5
SUB_B6
SUB_B7
L5
IO_L21N_6
S_BOUT0
K5
IO_L23N_6
S_BOUT1
R6
IO_L29N_5
S_BOUT2
P6
IO_L29P_5/VREF_5
S_BOUT3
N6
IO_L28N_5/D6
S_BOUT4
M6
IO_L28P_5/D7
S_BOUT5
N7
IO_L30N_5
S_BOUT6
M7
IO_L30P_5
S_BOUT7
VDO_S
HDO_S
DCK_S
R9280
47
R9281
47
R9282
22
P7
IO
VDOB
R7
IO_L31P_5/D5
HDOB
T7
IO_L31N_5/D4
DCKBO
OUTPUT_SUB
RST_3.3
RM_BYTE
I11
I12
I13
I14
I15
I16
I17
I18
I19

D-BOARD (9/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

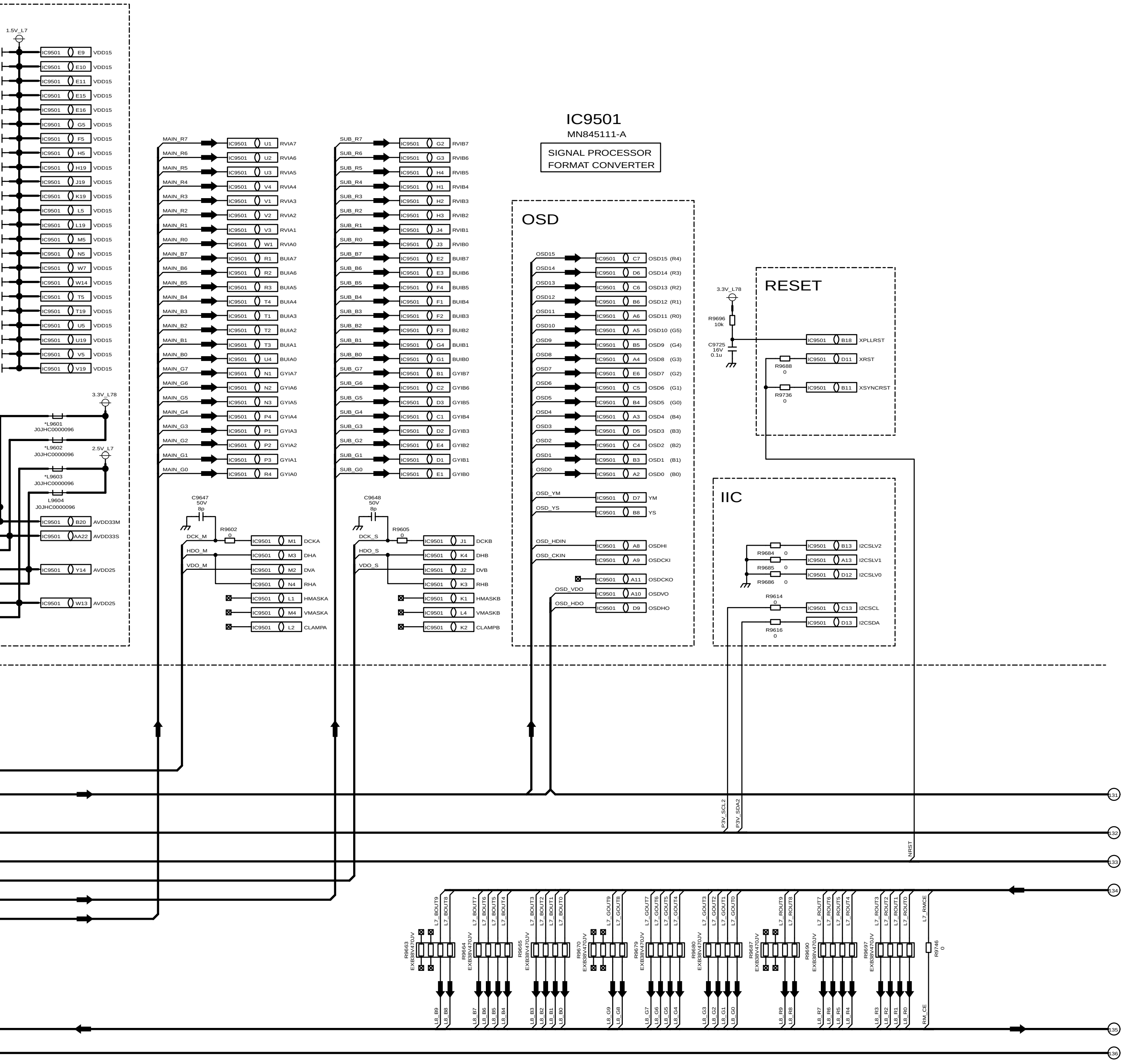
15.31. D-Board (10 of 12) Schematic Diagram



CA
CB
CC
CD
POWER
IC9501 H14 VSS
IC9501 H15 VSS
IC9501 H16 VSS
IC9501 J8 VSS
IC9501 J9 VSS
IC9501 J10 VSS
IC9501 J11 VSS
IC9501 J12 VSS
IC9501 J13 VSS
IC9501 J14 VSS
IC9501 J15 VSS
IC9501 J16 VSS
IC9501 K8 VSS
IC9501 K9 VSS
IC9501 K10 VSS
IC9501 K11 VSS
IC9501 K12 VSS
IC9501 K13 VSS
IC9501 K14 VSS
IC9501 K15 VSS
IC9501 K16 VSS
IC9501 L8 VSS
IC9501 L9 VSS
IC9501 L10 VSS
IC9501 L11 VSS
IC9501 L12 VSS
IC9501 L13 VSS
IC9501 L14 VSS
IC9501 L15 VSS
IC9501 L16 VSS
IC9501 R11 VSS
IC9501 R12 VSS
IC9501 R13 VSS
IC9501 R14 VSS
IC9501 R15 VSS
IC9501 R16 VSS
IC9501 T8 VSS
IC9501 T9 VSS
IC9501 T10 VSS
IC9501 T11 VSS
IC9501 T12 VSS
IC9501 T13 VSS
IC9501 T14 VSS
IC9501 T15 VSS
IC9501 T16 VSS
IC9501 V23 VSS
IC9501 W5 VSS
IC9501 W8 VSS
IC9501 W15 VSS
IC9501 W19 VSS
IC9501 Y4 VSS
IC9501 Y8 VSS
IC9501 Y15 VSS
IC9501 Y16 VSS
IC9501 Y20 VSS
IC9501 Y23 VSS
IC9501 A21 AVSSM
IC9501 AB23 AVSSS
IC9501 AA14 AVSS
IC9501 Y13 AVSS
1.5V_L7
C9662 16V 0.1u
C9663 16V 0.1u
C9664 16V 0.1u
C9665 16V 0.1u
C9666 16V 0.1u
C9667 16V 0.1u
C9668 16V 0.1u
C9669 16V 0.1u
C9670 16V 0.1u
C9671 16V 0.1u
C9672 16V 0.1u
C9673 16V 0.1u
C9674 16V 0.1u
C9675 16V 0.1u
C9676 16V 0.1u
C9677 16V 0.1u
C9678 16V 0.1u
C9679 16V 0.1u
C9680 16V 0.1u
C9681 16V 0.1u
C9682 16V 0.1u
C9683 16V 0.1u
C9684 16V 0.1u
IC9501 E9 VDD15
IC9501 E10 VDD15
IC9501 E11 VDD15
IC9501 E15 VDD15
IC9501 E16 VDD15
IC9501 G5 VDD15
IC9501 F5 VDD15
IC9501 H5 VDD15
IC9501 H19 VDD15
IC9501 J19 VDD15
IC9501 K19 VDD15
IC9501 L5 VDD15
IC9501 L19 VDD15
IC9501 M5 VDD15
IC9501 N5 VDD15
IC9501 W7 VDD15
IC9501 W14 VDD15
IC9501 T5 VDD15
IC9501 T19 VDD15
IC9501 U5 VDD15
IC9501 U19 VDD15
IC9501 V5 VDD15
IC9501 V19 VDD15
3.3V_L78
*L9601 J0JHC0000096
*L9602 J0JHC0000096
2.5V_L7
*L9603 J0JHC0000096
L9604 J0JHC0000096
C9781 6.3V 10u
C9718 16V 0.1u
C9719 16V 0.1u
C9782 6.3V 10u
C9783 6.3V 10u
C9784 16V 0.1u
C9721 16V 0.1u
C9785 6.3V 10u
IC9501 B20 AVDD33M
IC9501 AA22 AVDD33S
IC9501 Y14 AVDD25
IC9501 W13 AVDD25
111
112
113
114
115
116
117
118
119

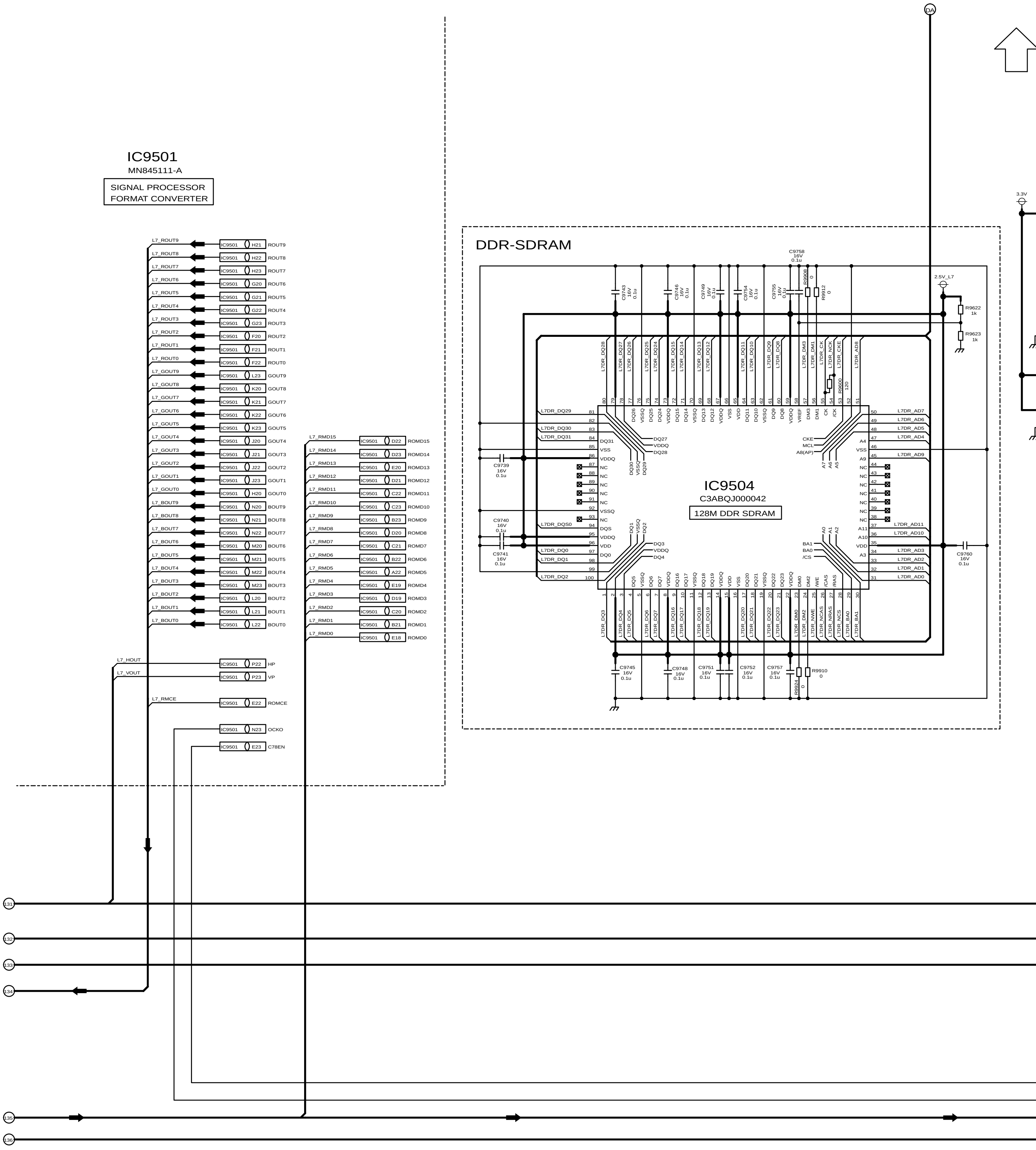
TO
DG-BOARD
(4/12)

D-BOARD (10/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)



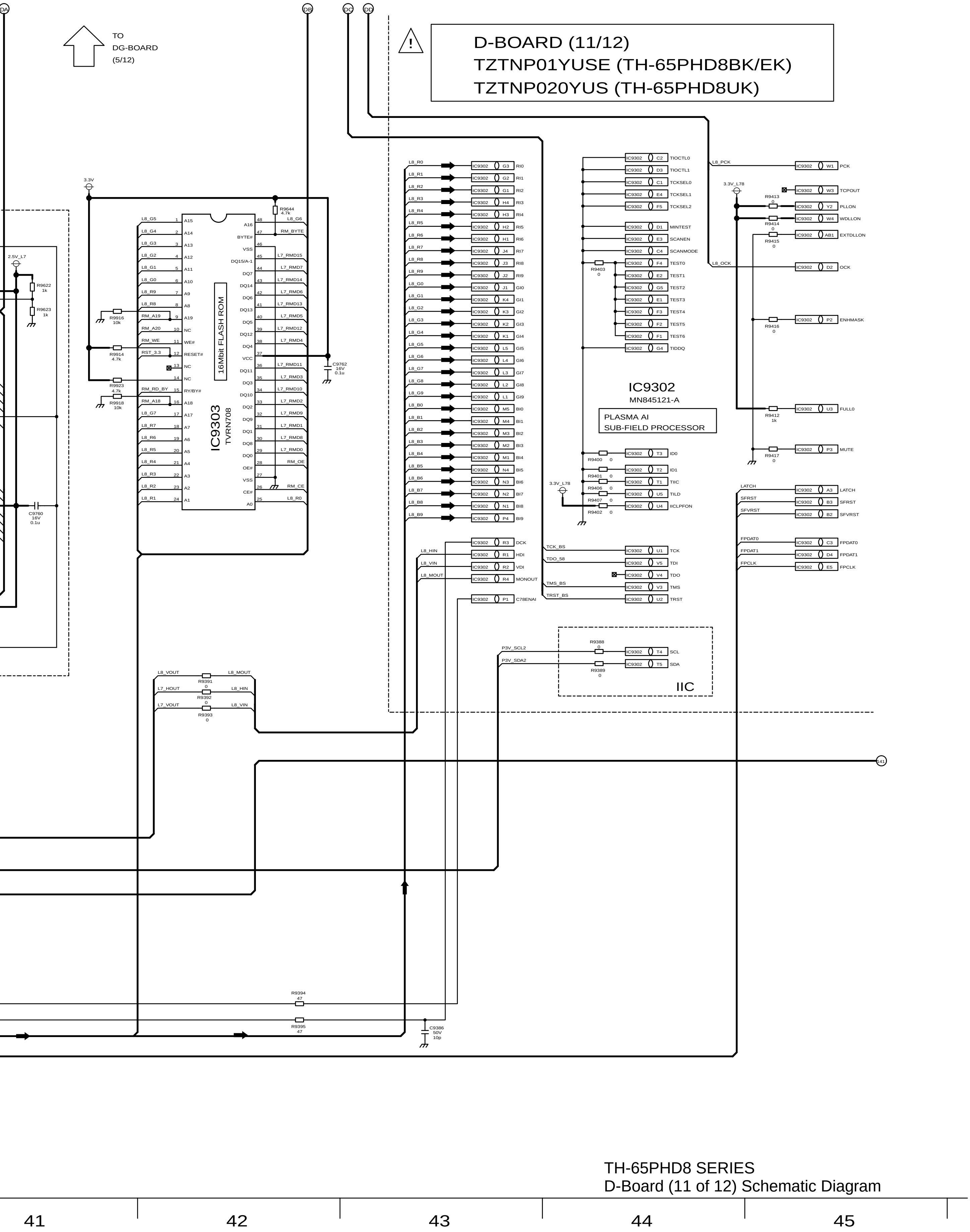
1.5V_L7
IC9501 E9 VDD15
IC9501 E10 VDD15
IC9501 E11 VDD15
IC9501 E15 VDD15
IC9501 E16 VDD15
IC9501 G5 VDD15
IC9501 F5 VDD15
IC9501 H5 VDD15
IC9501 H19 VDD15
IC9501 J19 VDD15
IC9501 K19 VDD15
IC9501 L5 VDD15
IC9501 L19 VDD15
IC9501 M5 VDD15
IC9501 N5 VDD15
IC9501 W7 VDD15
IC9501 W14 VDD15
IC9501 T5 VDD15
IC9501 T19 VDD15
IC9501 U5 VDD15
IC9501 U19 VDD15
IC9501 V5 VDD15
IC9501 V19 VDD15
3.3V_L78
*L9601 J0JHC0000096
*L9602 J0JHC0000096
2.5V_L7
*L9603 J0JHC0000096
L9604 J0JHC0000096
IC9501 B20 AVDD33M
IC9501 AA22 AVDD33S
IC9501 Y14 AVDD25
IC9501 W13 AVDD25
MAIN_R7 IC9501 U1 RVIA7
MAIN_R6 IC9501 U2 RVIA6
MAIN_R5 IC9501 U3 RVIA5
MAIN_R4 IC9501 V4 RVIA4
MAIN_R3 IC9501 V1 RVIA3
MAIN_R2 IC9501 V2 RVIA2
MAIN_R1 IC9501 V3 RVIA1
MAIN_R0 IC9501 W1 RVIA0
MAIN_B7 IC9501 R1 BUIA7
MAIN_B6 IC9501 R2 BUIA6
MAIN_B5 IC9501 R3 BUIA5
MAIN_B4 IC9501 T4 BUIA4
MAIN_B3 IC9501 T1 BUIA3
MAIN_B2 IC9501 T2 BUIA2
MAIN_B1 IC9501 T3 BUIA1
MAIN_B0 IC9501 U4 BUIA0
MAIN_G7 IC9501 N1 GYIA7
MAIN_G6 IC9501 N2 GYIA6
MAIN_G5 IC9501 N3 GYIA5
MAIN_G4 IC9501 P4 GYIA4
MAIN_G3 IC9501 P1 GYIA3
MAIN_G2 IC9501 P2 GYIA2
MAIN_G1 IC9501 P3 GYIA1
MAIN_G0 IC9501 R4 GYIA0
C9647 50V 8p
R9602 0
DCK_M IC9501 M1 DCKA
HDO_M IC9501 M3 DHA
VDO_M IC9501 M2 DVA
IC9501 N4 RHA
IC9501 L1 HMASKA
IC9501 M4 VMASKA
IC9501 L2 CLAMPA
SUB_R7 IC9501 G2 RVIB7
SUB_R6 IC9501 G3 RVIB6
SUB_R5 IC9501 H4 RVIB5
SUB_R4 IC9501 H1 RVIB4
SUB_R3 IC9501 H2 RVIB3
SUB_R2 IC9501 H3 RVIB2
SUB_R1 IC9501 J4 RVIB1
SUB_R0 IC9501 J3 RVIB0
SUB_B7 IC9501 E2 BUIB7
SUB_B6 IC9501 E3 BUIB6
SUB_B5 IC9501 F4 BUIB5
SUB_B4 IC9501 F1 BUIB4
SUB_B3 IC9501 F2 BUIB3
SUB_B2 IC9501 F3 BUIB2
SUB_B1 IC9501 G4 BUIB1
SUB_B0 IC9501 G1 BUIB0
SUB_G7 IC9501 B1 GYIB7
SUB_G6 IC9501 C2 GYIB6
SUB_G5 IC9501 C3 GYIB5
SUB_G4 IC9501 C1 GYIB4
SUB_G3 IC9501 D2 GYIB3
SUB_G2 IC9501 E4 GYIB2
SUB_G1 IC9501 D1 GYIB1
SUB_G0 IC9501 E1 GYIB0
C9648 50V 8p
R9605 0
DCK_S IC9501 J1 DCKB
HDO_S IC9501 K4 DHB
VDO_S IC9501 J2 DVB
IC9501 K3 RHB
IC9501 K1 HMASKB
IC9501 L4 VMASKB
IC9501 K2 CLAMPB
IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
OSD
OSD15 IC9501 C7 OSD15 (R4)
OSD14 IC9501 D6 OSD14 (R3)
OSD13 IC9501 C6 OSD13 (R2)
OSD12 IC9501 B6 OSD12 (R1)
OSD11 IC9501 A6 OSD11 (R0)
OSD10 IC9501 A5 OSD10 (G5)
OSD9 IC9501 B5 OSD9 (G4)
OSD8 IC9501 A4 OSD8 (G3)
OSD7 IC9501 E6 OSD7 (G2)
OSD6 IC9501 C5 OSD6 (G1)
OSD5 IC9501 B4 OSD5 (G0)
OSD4 IC9501 A3 OSD4 (B4)
OSD3 IC9501 D5 OSD3 (B3)
OSD2 IC9501 C4 OSD2 (B2)
OSD1 IC9501 B3 OSD1 (B1)
OSD0 IC9501 A2 OSD0 (B0)
OSD_YM IC9501 D7 YM
OSD_YS IC9501 B8 YS
OSD_HDIN IC9501 A8 OSDHI
OSD_CKIN IC9501 A9 OSDCKI
IC9501 A11 OSDCKO
OSD_VDO IC9501 A10 OSDVO
OSD_HDO IC9501 D9 OSDHO
RESET
3.3V_L78
R9696 10k
C9725 16V 0.1u
IC9501 B18 XPLLRST
R9688 0
IC9501 D11 XRST
R9736 0
IC9501 B11 XSYNCRST
IIC
R9684 0 IC9501 B13 I2CSLV2
R9685 0 IC9501 A13 I2CSLV1
R9686 0 IC9501 D12 I2CSLV0
R9614 0 IC9501 C13 I2CSCL
R9616 0 IC9501 D13 I2CSDA
P3V_SCL2
P3V_SDA2
NRST
131
132
133
134
135
136
R9663 EXB38V470JV
L7_BOUT9 L7_BOUT8
L8_B9 L8_B8
R9664 EXB38V470JV
L7_BOUT7 L7_BOUT6 L7_BOUT5 L7_BOUT4
L8_B7 L8_B6 L8_B5 L8_B4
R9665 EXB38V470JV
L7_BOUT3 L7_BOUT2 L7_BOUT1 L7_BOUT0
L8_B3 L8_B2 L8_B1 L8_B0
R9670 EXB38V470JV
L7_GOUT9 L7_GOUT8
L8_G9 L8_G8
R9679 EXB38V470JV
L7_GOUT7 L7_GOUT6 L7_GOUT5 L7_GOUT4
L8_G7 L8_G6 L8_G5 L8_G4
R9680 EXB38V470JV
L7_GOUT3 L7_GOUT2 L7_GOUT1 L7_GOUT0
L8_G3 L8_G2 L8_G1 L8_G0
R9687 EXB38V470JV
L7_ROUT9 L7_ROUT8
L8_R9 L8_R8
R9690 EXB38V470JV
L7_ROUT7 L7_ROUT6 L7_ROUT5 L7_ROUT4
L8_R7 L8_R6 L8_R5 L8_R4
R9697 EXB38V470JV
L7_ROUT3 L7_ROUT2 L7_ROUT1 L7_ROUT0
L8_R3 L8_R2 L8_R1 L8_R0
L7_RMCE
R9746 0
RM_CE

15.32. D-Board (11 of 12) Schematic Diagram


IC9501
MN845111-A
SIGNAL PROCESSOR
FORMAT CONVERTER
L7_ROUT9 IC9501 H21 ROUT9
L7_ROUT8 IC9501 H22 ROUT8
L7_ROUT7 IC9501 H23 ROUT7
L7_ROUT6 IC9501 G20 ROUT6
L7_ROUT5 IC9501 G21 ROUT5
L7_ROUT4 IC9501 G22 ROUT4
L7_ROUT3 IC9501 G23 ROUT3
L7_ROUT2 IC9501 F20 ROUT2
L7_ROUT1 IC9501 F21 ROUT1
L7_ROUT0 IC9501 F22 ROUT0
L7_GOUT9 IC9501 L23 GOUT9
L7_GOUT8 IC9501 K20 GOUT8
L7_GOUT7 IC9501 K21 GOUT7
L7_GOUT6 IC9501 K22 GOUT6
L7_GOUT5 IC9501 K23 GOUT5
L7_GOUT4 IC9501 J20 GOUT4
L7_GOUT3 IC9501 J21 GOUT3
L7_GOUT2 IC9501 J22 GOUT2
L7_GOUT1 IC9501 J23 GOUT1
L7_GOUT0 IC9501 H20 GOUT0
L7_BOUT9 IC9501 N20 BOUT9
L7_BOUT8 IC9501 N21 BOUT8
L7_BOUT7 IC9501 N22 BOUT7
L7_BOUT6 IC9501 M20 BOUT6
L7_BOUT5 IC9501 M21 BOUT5
L7_BOUT4 IC9501 M22 BOUT4
L7_BOUT3 IC9501 M23 BOUT3
L7_BOUT2 IC9501 L20 BOUT2
L7_BOUT1 IC9501 L21 BOUT1
L7_BOUT0 IC9501 L22 BOUT0
L7_HOUT IC9501 P22 HP
L7_VOUT IC9501 P23 VP
L7_RMCE IC9501 E22 ROMCE
IC9501 N23 OCKO
IC9501 E23 C78EN
L7_RMD15 IC9501 D22 ROMD15
L7_RMD14 IC9501 D23 ROMD14
L7_RMD13 IC9501 E20 ROMD13
L7_RMD12 IC9501 D21 ROMD12
L7_RMD11 IC9501 C22 ROMD11
L7_RMD10 IC9501 C23 ROMD10
L7_RMD9 IC9501 B23 ROMD9
L7_RMD8 IC9501 D20 ROMD8
L7_RMD7 IC9501 C21 ROMD7
L7_RMD6 IC9501 B22 ROMD6
L7_RMD5 IC9501 A22 ROMD5
L7_RMD4 IC9501 E19 ROMD4
L7_RMD3 IC9501 D19 ROMD3
L7_RMD2 IC9501 C20 ROMD2
L7_RMD1 IC9501 B21 ROMD1
L7_RMD0 IC9501 E18 ROMD0
DDR-SDRAM
IC9504
C3ABQJ000042
128M DDR SDRAM
2.5V_L7
3.3V
R9622 1k
R9623 1k
C9739 16V 0.1u
C9740 16V 0.1u
C9741 16V 0.1u
C9760 16V 0.1u
C9743 16V 0.1u
C9746 16V 0.1u
C9749 16V 0.1u
C9754 16V 0.1u
C9755 16V 0.1u
C9758 16V 0.1u
R9908 0
R9912 0
C9745 16V 0.1u
C9748 16V 0.1u
C9751 16V 0.1u
C9752 16V 0.1u
C9757 16V 0.1u
R9924 0
R9910 0
R9600 120
DA
131
132
133
134
135
136

TH-65PHD8 SERIES
D-Board (11 of 12) Schematic Diagram

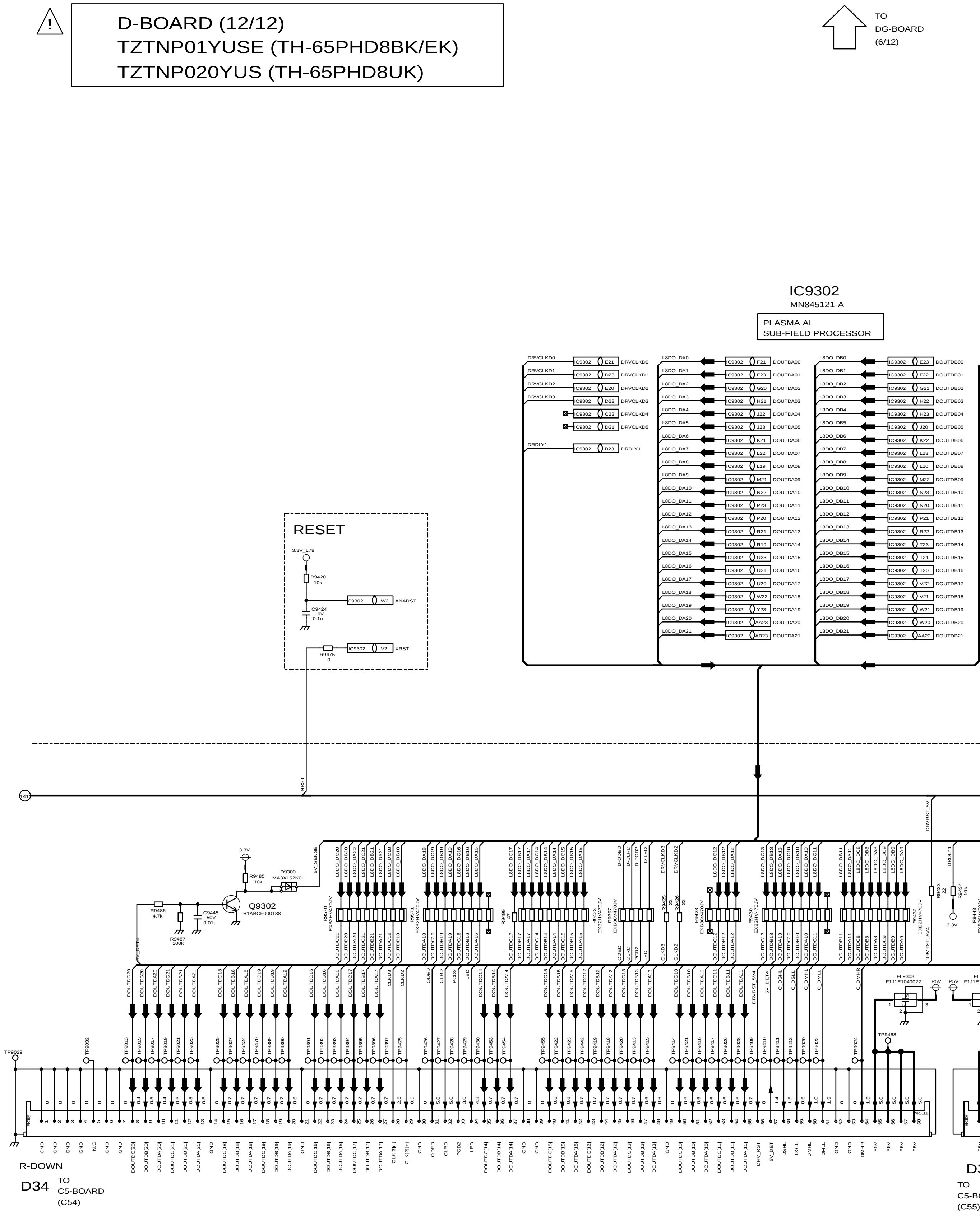
D-BOARD (11/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

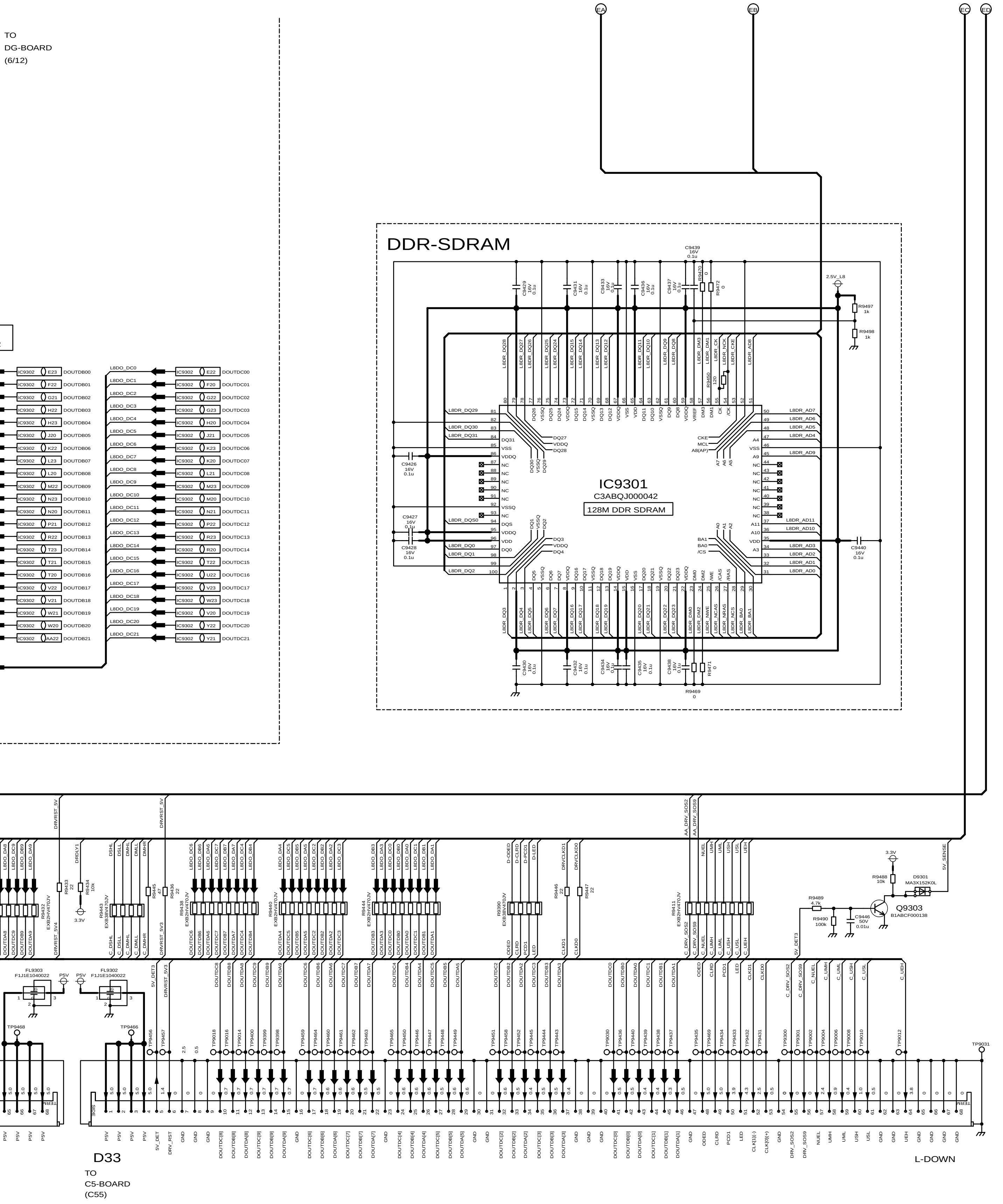

DA
DB
DC
DD
TO
DG-BOARD
(5/12)
⚠
3.3V
2.5V_L7
R9622 1k
R9623 1k
C9760 16V 0.1u
R9644 4.7k
R9916 10k
R9914 4.7k
R9923 4.7k
R9918 10k
IC9303
TVRN708
16Mbit FLASH ROM
L8_G5 1 A15
L8_G4 2 A14
L8_G3 3 A13
L8_G2 4 A12
L8_G1 5 A11
L8_G0 6 A10
L8_R9 7 A9
L8_R8 8 A8
RM_A19 9 A19
RM_A20 10 NC
RM_WE 11 WE#
RST_3.3 12 RESET#
13 NC
14 NC
RM_RD_BY 15 RY/BY#
RM_A18 16 A18
L8_G7 17 A17
L8_R7 18 A7
L8_R6 19 A6
L8_R5 20 A5
L8_R4 21 A4
L8_R3 22 A3
L8_R2 23 A2
L8_R1 24 A1
A16 48 L8_G6
BYTE# 47 RM_BYTE
VSS 46
DQ15/A-1 45 L7_RMD15
DQ7 44 L7_RMD7
DQ14 43 L7_RMD14
DQ6 42 L7_RMD6
DQ13 41 L7_RMD13
DQ5 40 L7_RMD5
DQ12 39 L7_RMD12
DQ4 38 L7_RMD4
VCC 37
DQ11 36 L7_RMD11
DQ3 35 L7_RMD3
DQ10 34 L7_RMD10
DQ2 33 L7_RMD2
DQ9 32 L7_RMD9
DQ1 31 L7_RMD1
DQ8 30 L7_RMD8
DQ0 29 L7_RMD0
OE# 28 RM_OE
VSS 27
CE# 26 RM_CE
A0 25 L8_R0
C9762 16V 0.1u
L8_R0 IC9302 G3 RI0
L8_R1 IC9302 G2 RI1
L8_R2 IC9302 G1 RI2
L8_R3 IC9302 H4 RI3
L8_R4 IC9302 H3 RI4
L8_R5 IC9302 H2 RI5
L8_R6 IC9302 H1 RI6
L8_R7 IC9302 J4 RI7
L8_R8 IC9302 J3 RI8
L8_R9 IC9302 J2 RI9
L8_G0 IC9302 J1 GI0
L8_G1 IC9302 K4 GI1
L8_G2 IC9302 K3 GI2
L8_G3 IC9302 K2 GI3
L8_G4 IC9302 K1 GI4
L8_G5 IC9302 L5 GI5
L8_G6 IC9302 L4 GI6
L8_G7 IC9302 L3 GI7
L8_G8 IC9302 L2 GI8
L8_G9 IC9302 L1 GI9
L8_B0 IC9302 M5 BI0
L8_B1 IC9302 M4 BI1
L8_B2 IC9302 M3 BI2
L8_B3 IC9302 M2 BI3
L8_B4 IC9302 M1 BI4
L8_B5 IC9302 N4 BI5
L8_B6 IC9302 N3 BI6
L8_B7 IC9302 N2 BI7
L8_B8 IC9302 N1 BI8
L8_B9 IC9302 P4 BI9
IC9302 R3 DCK
L8_HIN IC9302 R1 HDI
L8_VIN IC9302 R2 VDI
L8_MOUT IC9302 R4 MONOUT
IC9302 P1 C78ENAI
IC9302 C2 TIOCTL0
IC9302 D3 TIOCTL1
IC9302 C1 TCKSEL0
IC9302 E4 TCKSEL1
IC9302 F5 TCKSEL2
IC9302 D1 MINTEST
IC9302 E3 SCANEN
IC9302 C4 SCANMODE
R9403 0
IC9302 F4 TEST0
IC9302 E2 TEST1
IC9302 G5 TEST2
IC9302 E1 TEST3
IC9302 F3 TEST4
IC9302 F2 TEST5
IC9302 F1 TEST6
IC9302 G4 TIDDQ
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
R9400 0 IC9302 T3 ID0
IC9302 T2 ID1
R9401 0 IC9302 T1 TIIC
3.3V_L78
R9406 0 IC9302 U5 TILD
R9407 0 IC9302 U4 IICLPFON
R9402 0
TCK_BS IC9302 U1 TCK
TDO_58 IC9302 V5 TDI
IC9302 V4 TDO
TMS_BS IC9302 V3 TMS
TRST_BS IC9302 U2 TRST
P3V_SCL2 R9388 0 IC9302 T4 SCL
P3V_SDA2 R9389 0 IC9302 T5 SDA
IIC
L8_PCK IC9302 W1 PCK
3.3V_L78
IC9302 W3 TCPOUT
R9413 0 IC9302 Y2 PLLON
R9414 0 IC9302 W4 WDLLON
R9415 0 IC9302 AB1 EXTDLLON
L8_OCK IC9302 D2 OCK
R9416 0 IC9302 P2 ENHMASK
R9412 1k IC9302 U3 FULL0
R9417 0 IC9302 P3 MUTE
LATCH IC9302 A3 LATCH
SFRST IC9302 B3 SFRST
SFVRST IC9302 B2 SFVRST
FPDAT0 IC9302 C3 FPDAT0
FPDAT1 IC9302 D4 FPDAT1
FPCLK IC9302 E5 FPCLK
L8_VOUT R9391 0 L8_MOUT
L7_HOUT R9392 0 L8_HIN
L7_VOUT R9393 0 L8_VIN
141
R9394 47
R9395 47
C9386 50V 10p
41
42
43
44
45

TH-65PHD8 SERIES
D-Board (11 of 12) Schematic Diagram

15.33. D-Board (12 of 12) Schematic Diagram

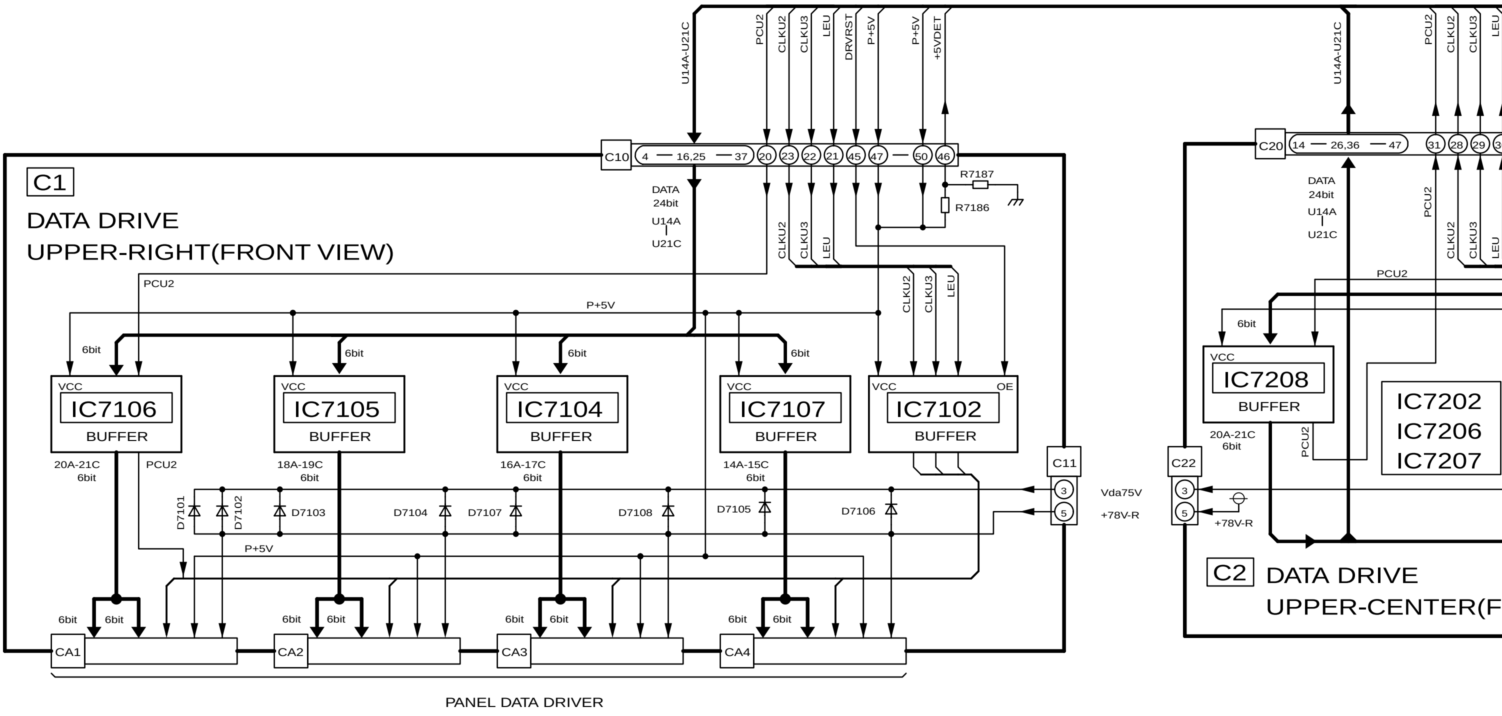
D-BOARD (12/12)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)

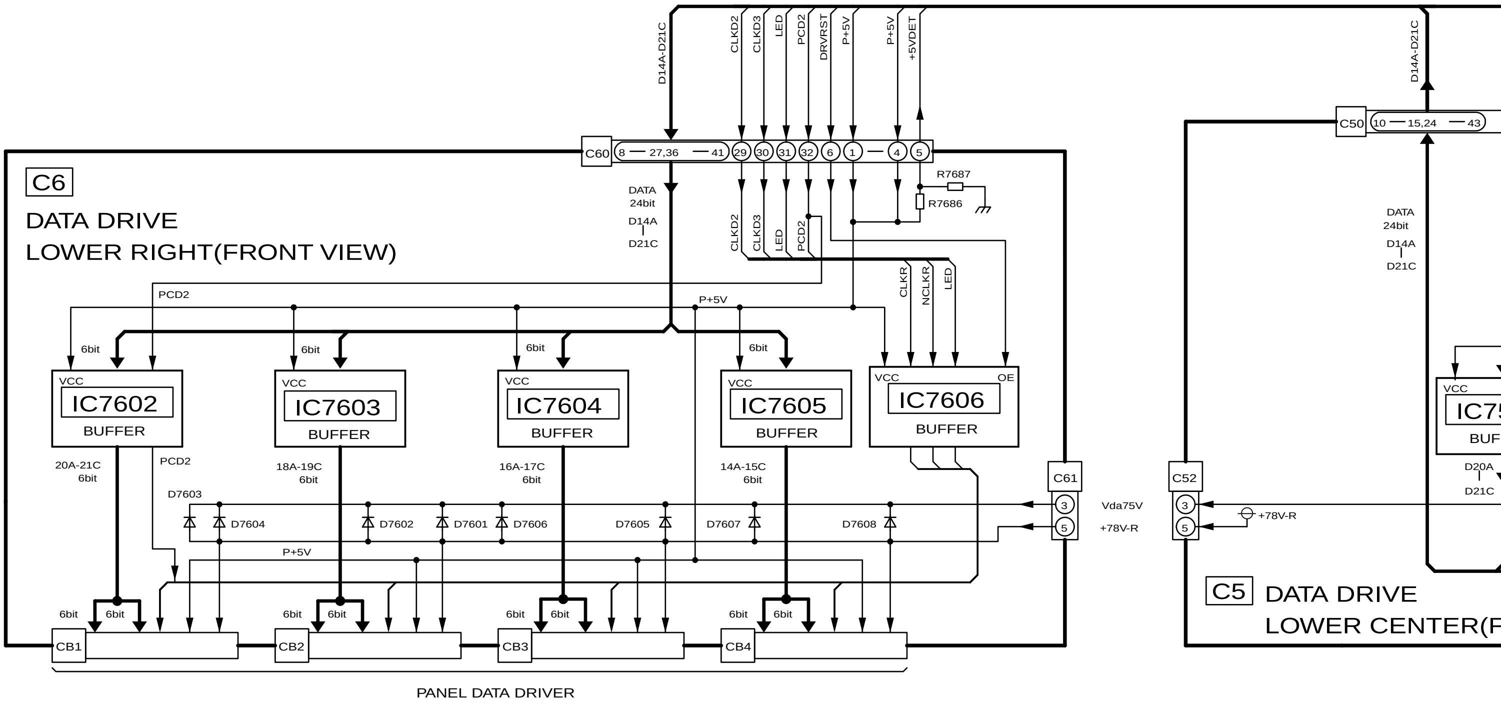

TO
DG-BOARD
(6/12)
IC9302
MN845121-A
PLASMA AI
SUB-FIELD PROCESSOR
RESET
3.3V_L78
R9420
10k
C9424
16V
0.1u
IC9302
W2
ANARST
V2
XRST
R9475
0
XRST
3.3V
R9485
10k
D9300
MA3X152K0L
5V_SENSE
Q9302
B1ABCF000138
R9486
4.7k
C9445
50V
0.01u
R9487
100k
DRVCLKD0
DRVCLKD1
DRVCLKD2
DRVCLKD3
DRDLY1
DRVRST_5V
FL9303
F1J1E1040022
P5V
TP9468
TP9029
R-DOWN
D34
TO
C5-BOARD
(C54)
TO
C5-BO
(C55)

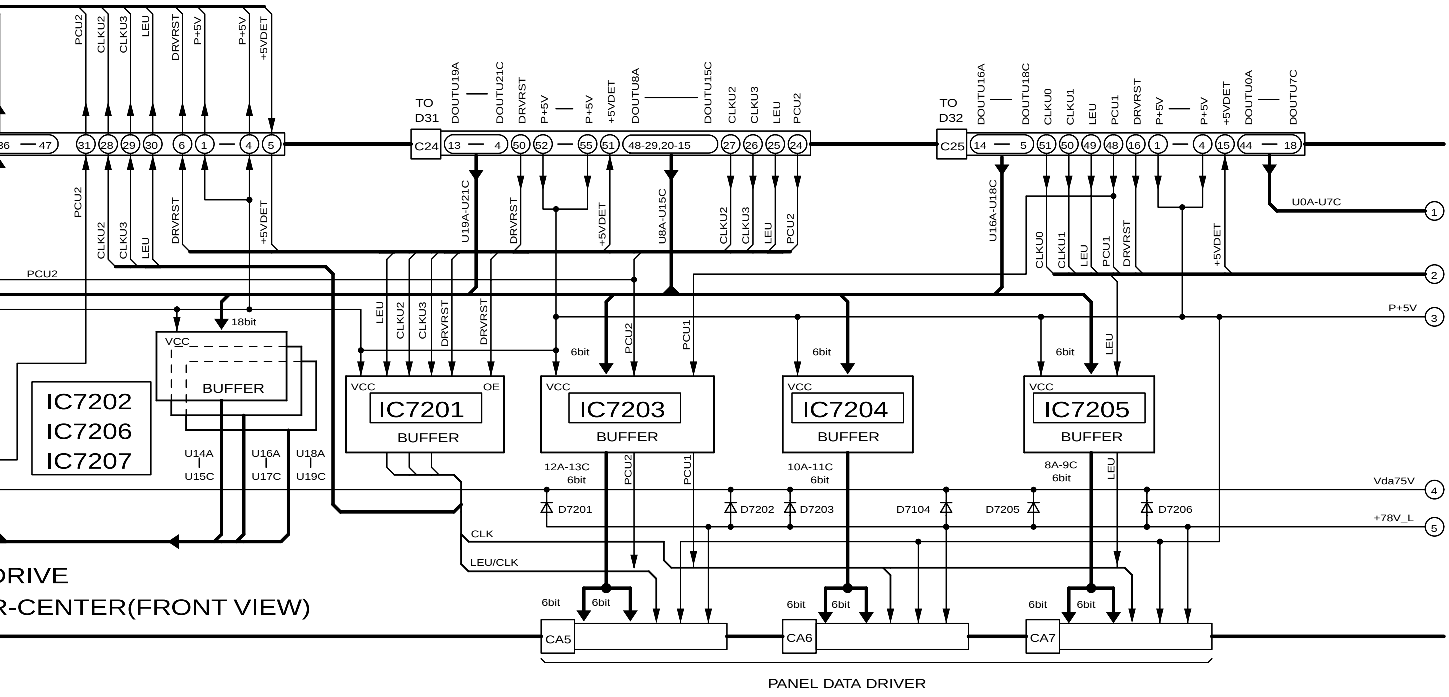

TO
DG-BOARD
(6/12)
DDR-SDRAM
IC9301
C3ABQJ000042
128M DDR SDRAM
2.5V_L8
R9497 1k
R9498 1k
C9439 16V 0.1u
C9440 16V 0.1u
C9426 16V 0.1u
C9427 16V 0.1u
C9428 16V 0.1u
R9469 0
EA
EB
EC
ED
Q9303
B1ABCF000138
D9301
MA3X152K0L
3.3V
5V_SENSE
FL9303
F1J1E1040022
FL9302
F1J1E1040022
P5V
TP9031
D33
TO
C5-BOARD
(C55)
L-DOWN

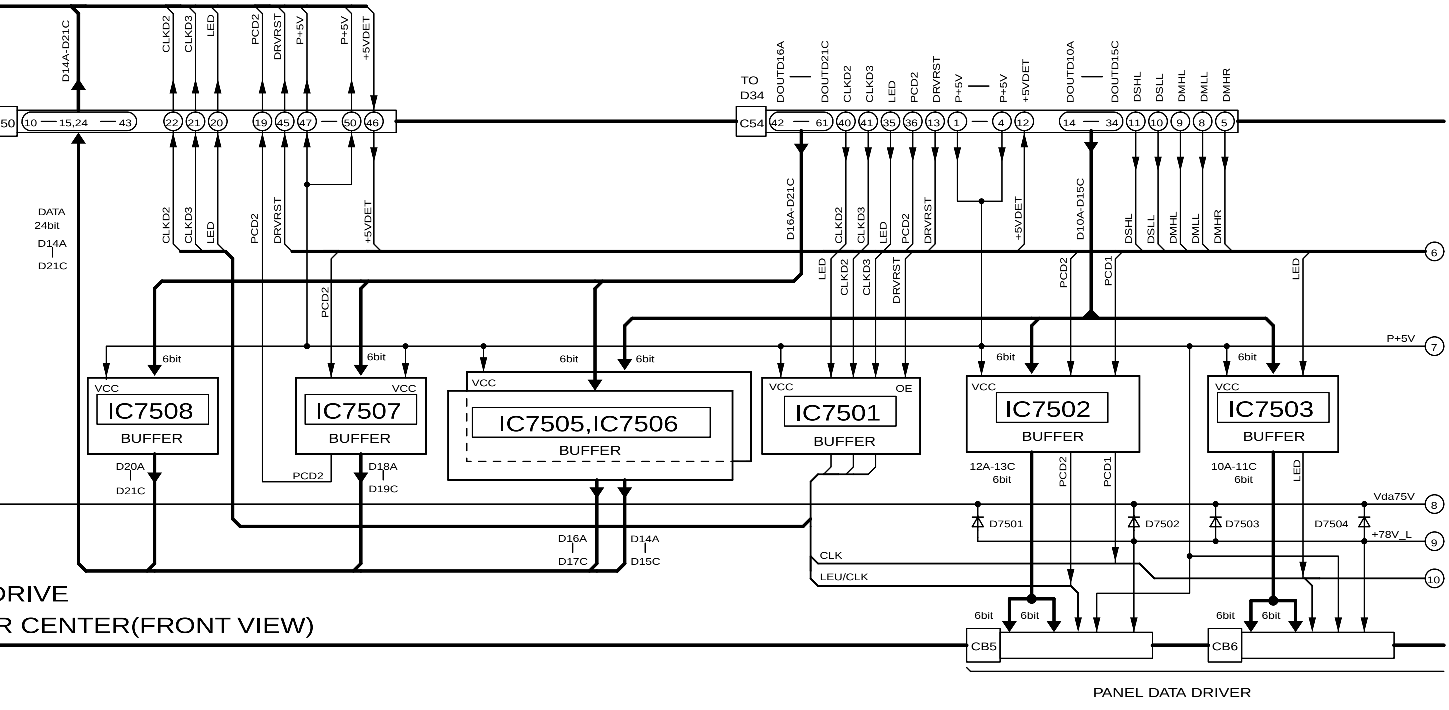
TH-65PHD8 SERIES
D-Board (12 of 12) Schematic Diagram

15.34. C1, C2, C5 and C6-Board Block Diagram


C1
DATA DRIVE
UPPER-RIGHT(FRONT VIEW)
U14A-U21C
PCU2
CLKU2
CLKU3
LEU
DRVRST
P+5V
P+5V
+5VDET
C10
4
16,25
37
20
23
22
21
45
47
50
46
R7187
R7186
DATA
24bit
U14A
U21C
P+5V
6bit
VCC
IC7106
BUFFER
20A-21C
6bit
IC7105
18A-19C
IC7104
16A-17C
IC7107
14A-15C
IC7102
OE
C11
3
5
Vda75V
+78V-R
D7101
D7102
D7103
D7104
D7107
D7108
D7105
D7106
CA1
CA2
CA3
CA4
PANEL DATA DRIVER
C20
14
26,36
47
31
28
29
C22
IC7208
IC7202
IC7206
IC7207
C2
DATA DRIVE
UPPER-CENTER(F

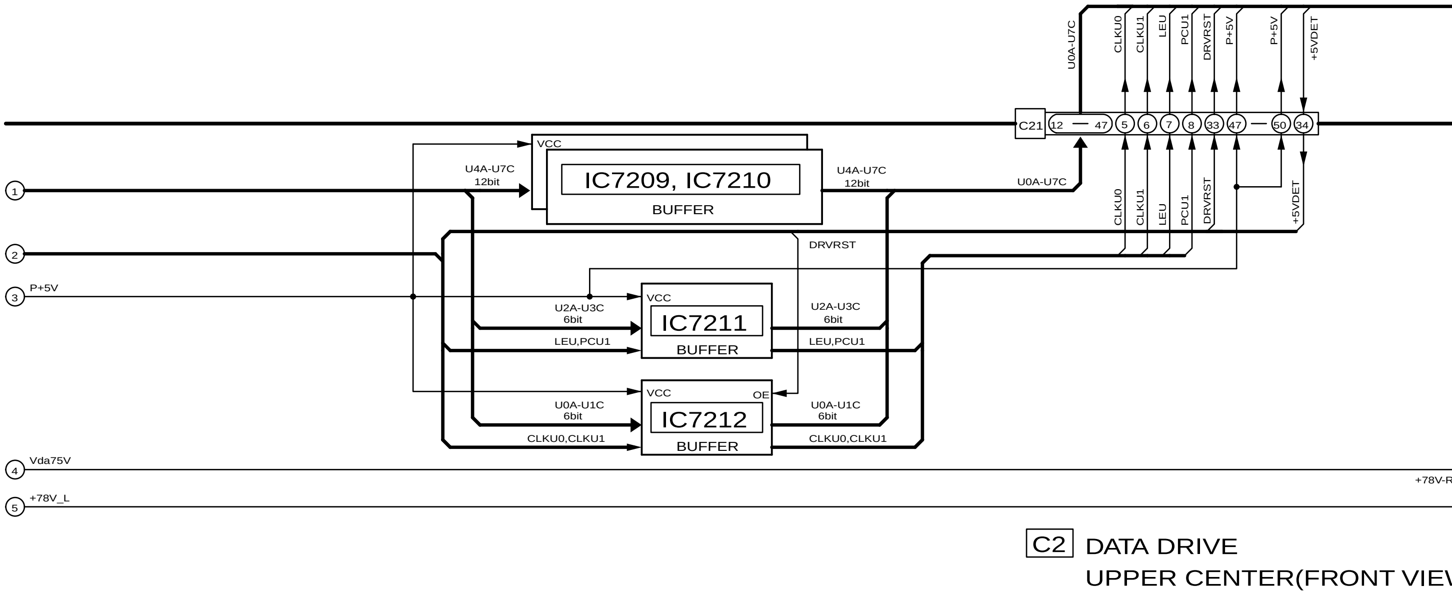

C6
DATA DRIVE
LOWER RIGHT(FRONT VIEW)
D14A-D21C
CLKD2
CLKD3
LED
PCD2
DRVRST
P+5V
P+5V
+5VDET
C60
8
27,36
41
29
30
31
32
6
1
4
5
R7687
R7686
DATA
24bit
D14A
D21C
CLKR
NCLKR
LED
P+5V
6bit
VCC
IC7602
BUFFER
20A-21C
IC7603
18A-19C
IC7604
16A-17C
IC7605
14A-15C
IC7606
OE
C61
3
5
Vda75V
+78V-R
D7603
D7604
D7602
D7601
D7606
D7605
D7607
D7608
CB1
CB2
CB3
CB4
PANEL DATA DRIVER
C50
10
15,24
43
C52
D20A
D21C
C5
DATA DRIVE
LOWER CENTER(F


TO D31
TO D32
C24
C25
CA5
CA6
CA7
IC7202
IC7206
IC7207
IC7201
IC7203
IC7204
IC7205
BUFFER
VCC
OE
18bit
6bit
U0A-U7C
U19A-U21C
U8A-U15C
U16A-U18C
U14A U15C
U16A U17C
U18A U19C
12A-13C 6bit
10A-11C 6bit
8A-9C 6bit
D7201
D7202
D7203
D7104
D7205
D7206
P+5V
Vda75V
+78V_L
CLK
LEU/CLK
PCU1
PCU2
CLKU0
CLKU1
CLKU2
CLKU3
LEU
DRVRST
+5VDET
DOUTU19A
DOUTU21C
DOUTU8A
DOUTU15C
DOUTU16A
DOUTU18C
DOUTU0A
DOUTU7C
RIVE
-CENTER(FRONT VIEW)
PANEL DATA DRIVER

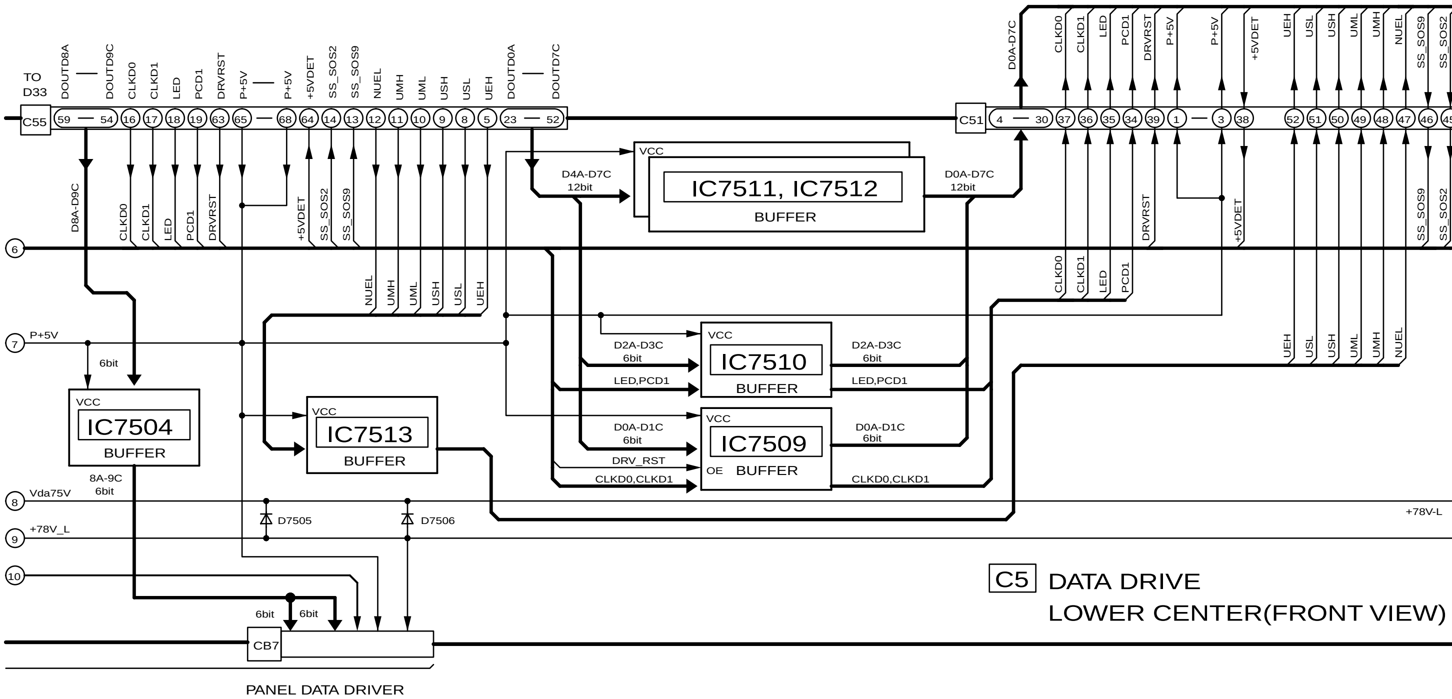

TO D34
C54
CB5
CB6
IC7508
IC7507
IC7505,IC7506
IC7501
IC7502
IC7503
BUFFER
VCC
OE
6bit
DATA 24bit
D14A D21C
D14A-D21C
D16A-D21C
D10A-D15C
D20A D21C
D18A D19C
D16A D17C
D14A D15C
12A-13C 6bit
10A-11C 6bit
D7501
D7502
D7503
D7504
P+5V
Vda75V
+78V_L
CLK
LEU/CLK
CLKD2
CLKD3
LED
PCD1
PCD2
DRVRST
+5VDET
DOUTD16A
DOUTD21C
DOUTD10A
DOUTD15C
DSHL
DSLL
DMHL
DMLL
DMHR
RIVE
CENTER(FRONT VIEW)
PANEL DATA DRIVER

TH-65PHD8 SERIES
C1, C2, C5 and C6-Board Block Diagram

15.35. C2, C3, C4 and C5-Board Block Diagram

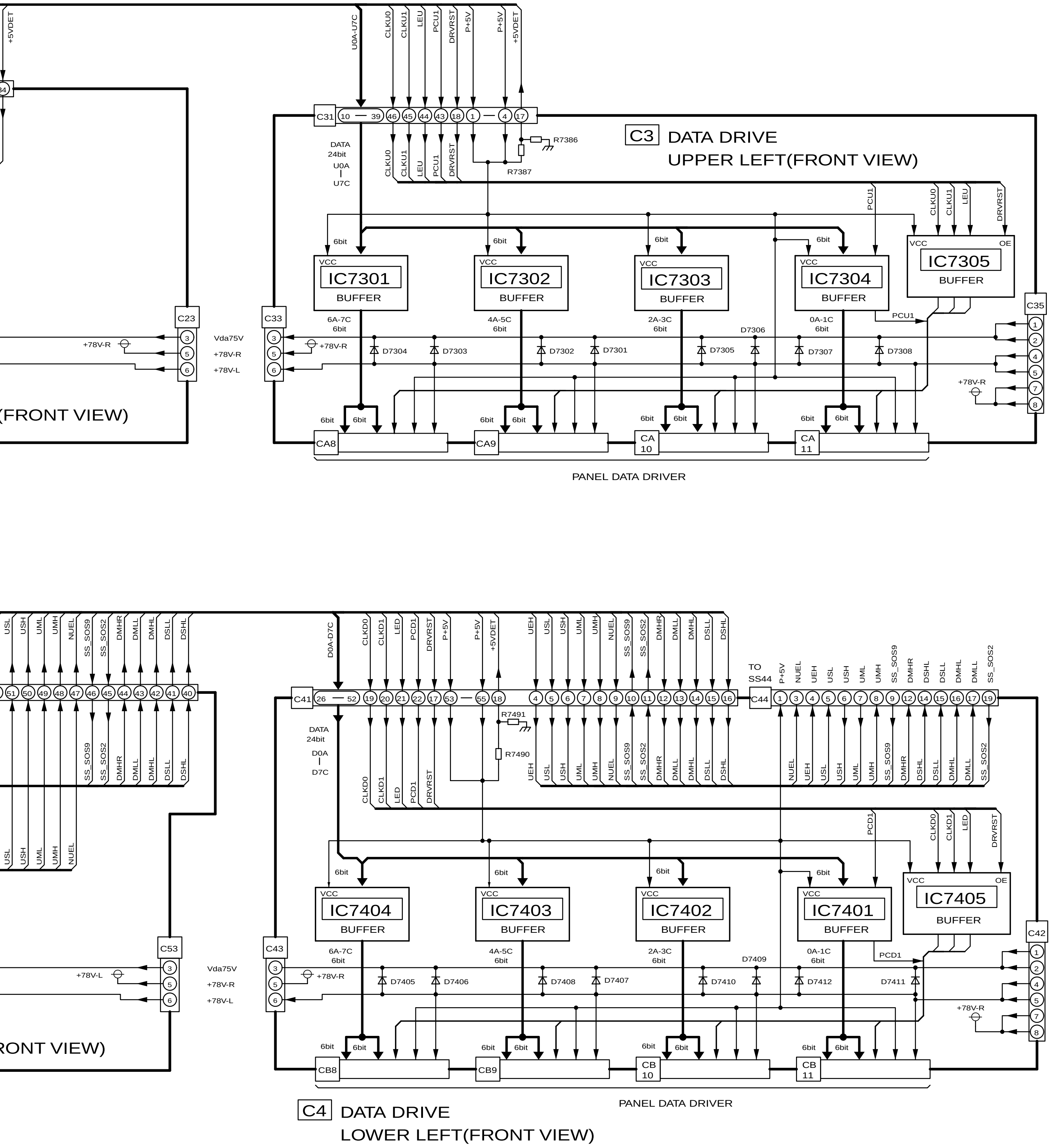


C21
U0A-U7C
CLKU0
CLKU1
LEU
PCU1
DRVRST
P+5V
P+5V
+5VDET
12 — 47
5
6
7
8
33
47 — 50
34
VCC
IC7209, IC7210
BUFFER
U4A-U7C
12bit
U4A-U7C
12bit
U0A-U7C
DRVRST
P+5V
VCC
IC7211
BUFFER
U2A-U3C
6bit
U2A-U3C
6bit
LEU,PCU1
LEU,PCU1
VCC
OE
IC7212
BUFFER
U0A-U1C
6bit
U0A-U1C
6bit
CLKU0,CLKU1
CLKU0,CLKU1
1
2
3
4
5
Vda75V
+78V_L
+78V-R
C2
DATA DRIVE
UPPER CENTER(FRONT VIEW



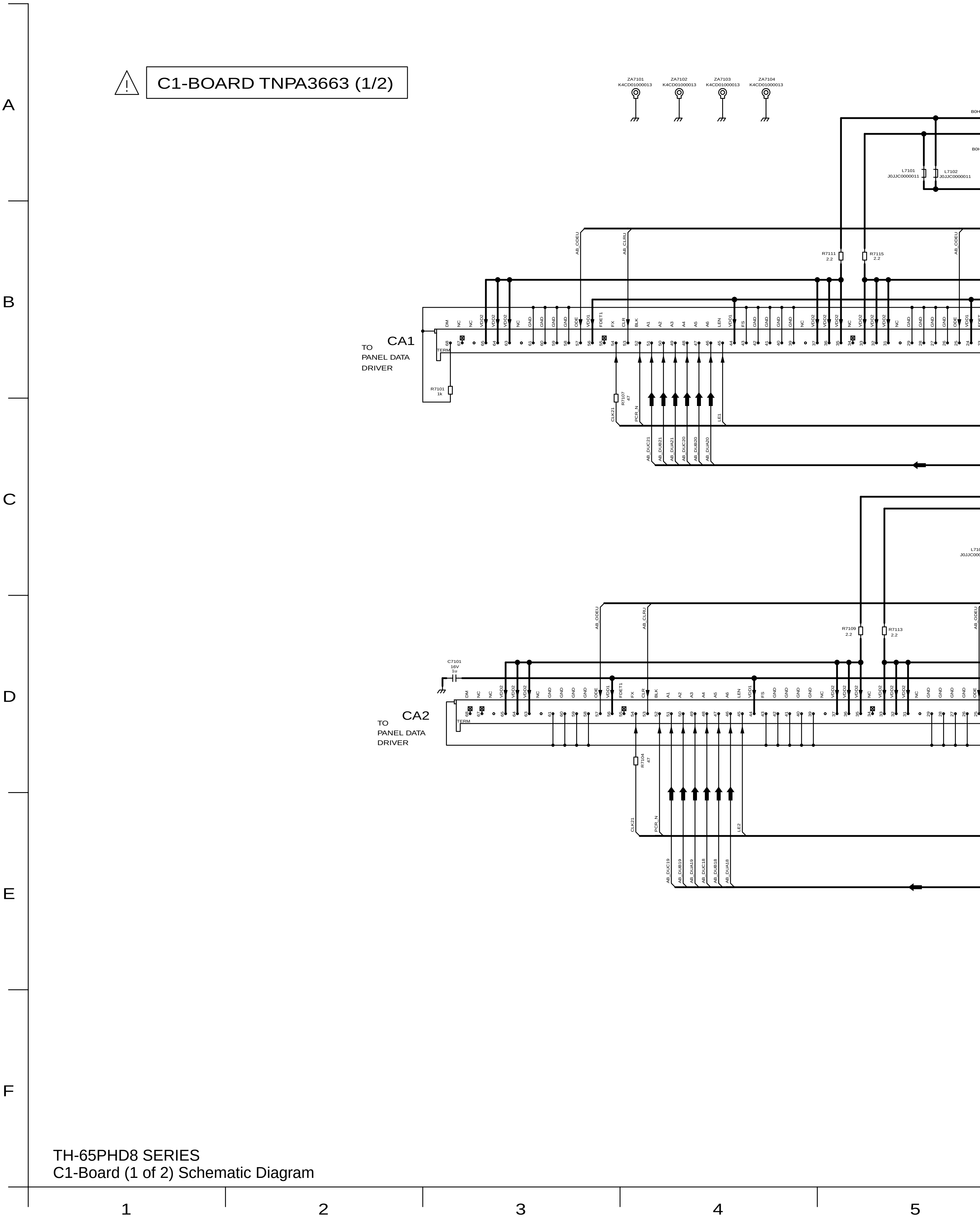
TO D33
C55
DOUTD8A
DOUTD9C
CLKD0
CLKD1
LED
PCD1
DRVRST
P+5V
P+5V
+5VDET
SS_SOS2
SS_SOS9
NUEL
UMH
UML
USH
USL
UEH
DOUTD0A
DOUTD7C
59 — 54
16
17
18
19
63
65 — 68
64
14
13
12
11
10
9
8
5
23 — 52
D8A-D9C
C51
D0A-D7C
4 — 30
37
36
35
34
39
1 — 3
38
52
51
50
49
48
47
46
VCC
IC7511, IC7512
BUFFER
D4A-D7C
12bit
D0A-D7C
12bit
VCC
IC7510
BUFFER
D2A-D3C
6bit
D2A-D3C
6bit
LED,PCD1
LED,PCD1
VCC
IC7509
OE
BUFFER
D0A-D1C
6bit
D0A-D1C
6bit
DRV_RST
CLKD0,CLKD1
CLKD0,CLKD1
VCC
IC7504
BUFFER
6bit
8A-9C
6bit
VCC
IC7513
BUFFER
D7505
D7506
6
7
8
9
10
P+5V
Vda75V
+78V_L
+78V-L
6bit
6bit
CB7
PANEL DATA DRIVER
C5
DATA DRIVE
LOWER CENTER(FRONT VIEW)

TH-65PHD8 SERIES
C2, C3, C4 and C5-Board Block Diagram

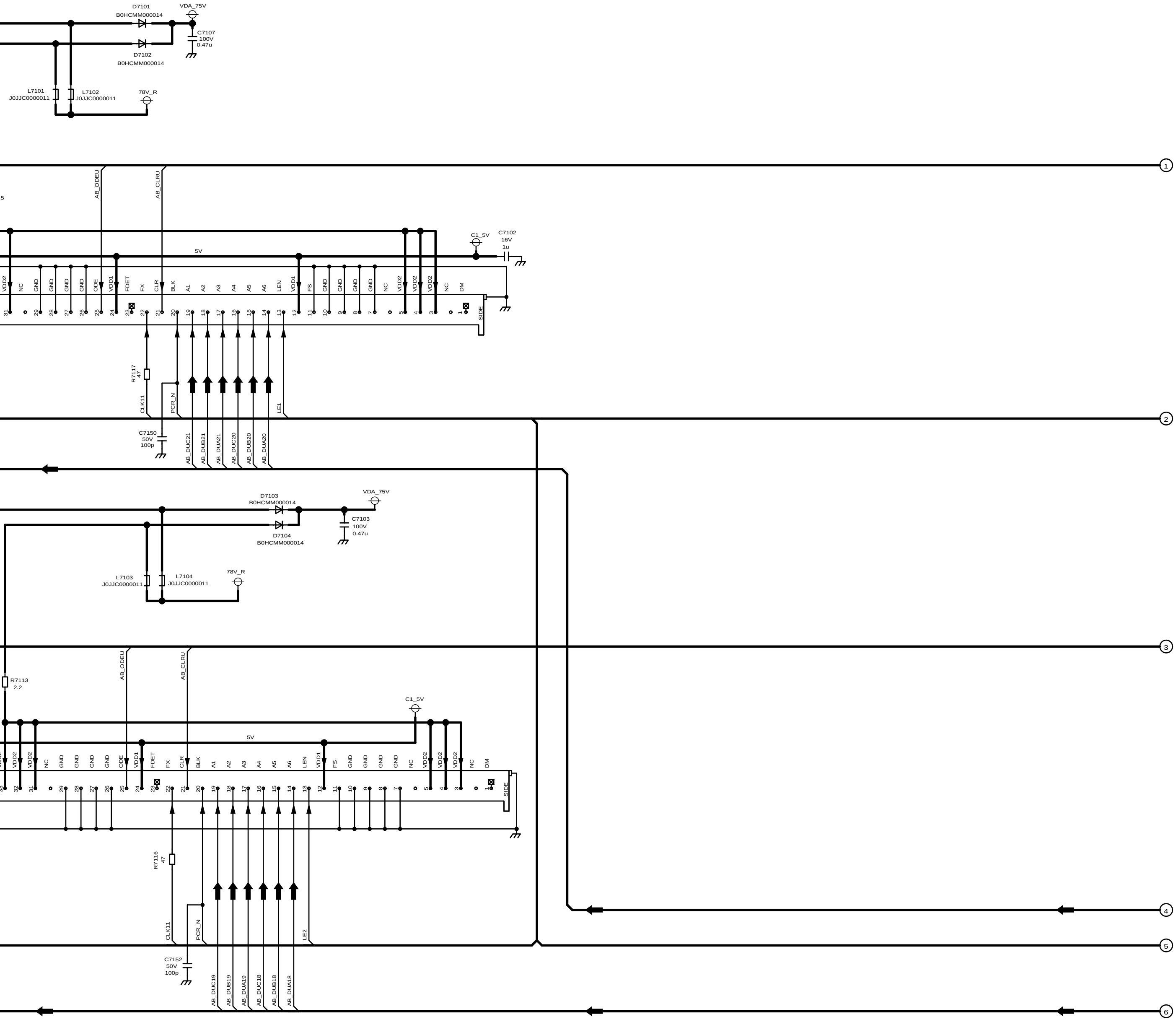

C3
DATA DRIVE
UPPER LEFT(FRONT VIEW)
C31
U0A-U7C
CLKU0
CLKU1
LEU
PCU1
DRVRST
P+5V
+5VDET
DATA 24bit U0A | U7C
R7386
R7387
IC7301 BUFFER
IC7302 BUFFER
IC7303 BUFFER
IC7304 BUFFER
IC7305 BUFFER
VCC
OE
6bit
6A-7C 6bit
4A-5C 6bit
2A-3C 6bit
0A-1C 6bit
D7301
D7302
D7303
D7304
D7305
D7306
D7307
D7308
C23
C33
C35
TO SS35
Vda75V
+78V-R
+78V-L
CA8
CA9
CA 10
CA 11
PANEL DATA DRIVER
(FRONT VIEW)
C4
DATA DRIVE
LOWER LEFT(FRONT VIEW)
C41
C43
C44
C42
C53
TO SS44
TO SS42
D0A-D7C
CLKD0
CLKD1
LED
PCD1
UEH
USL
USH
UML
UMH
NUEL
SS_SOS9
SS_SOS2
DMHR
DMLL
DMHL
DSLL
DSHL
DATA 24bit D0A | D7C
R7490
R7491
IC7401 BUFFER
IC7402 BUFFER
IC7403 BUFFER
IC7404 BUFFER
IC7405 BUFFER
D7405
D7406
D7407
D7408
D7409
D7410
D7411
D7412
CB8
CB9
CB 10
CB 11
PANEL DATA DRIVER
RONT VIEW)

TH-65PHD8 SERIES
C2, C3, C4 and C5-Board Block Diagram

15.36. C1-Board (1 of 2) Schematic Diagram


C1-BOARD TNPA3663 (1/2)
A
B
C
D
E
F
1
2
3
4
5
ZA7101 K4CD01000013
ZA7102 K4CD01000013
ZA7103 K4CD01000013
ZA7104 K4CD01000013
L7101 J0JJC0000011
L7102 J0JJC0000011
AB_ODEU
AB_CLRU
R7111 2.2
R7115 2.2
CA1
TO PANEL DATA DRIVER
TERM
R7101 1k
R7107 47
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
CLK21
PCR_N
LE1
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
R7109 2.2
R7113 2.2
C7101 16V 1u
CA2
R7104 47
LE2
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18

TH-65PHD8 SERIES
C1-Board (1 of 2) Schematic Diagram

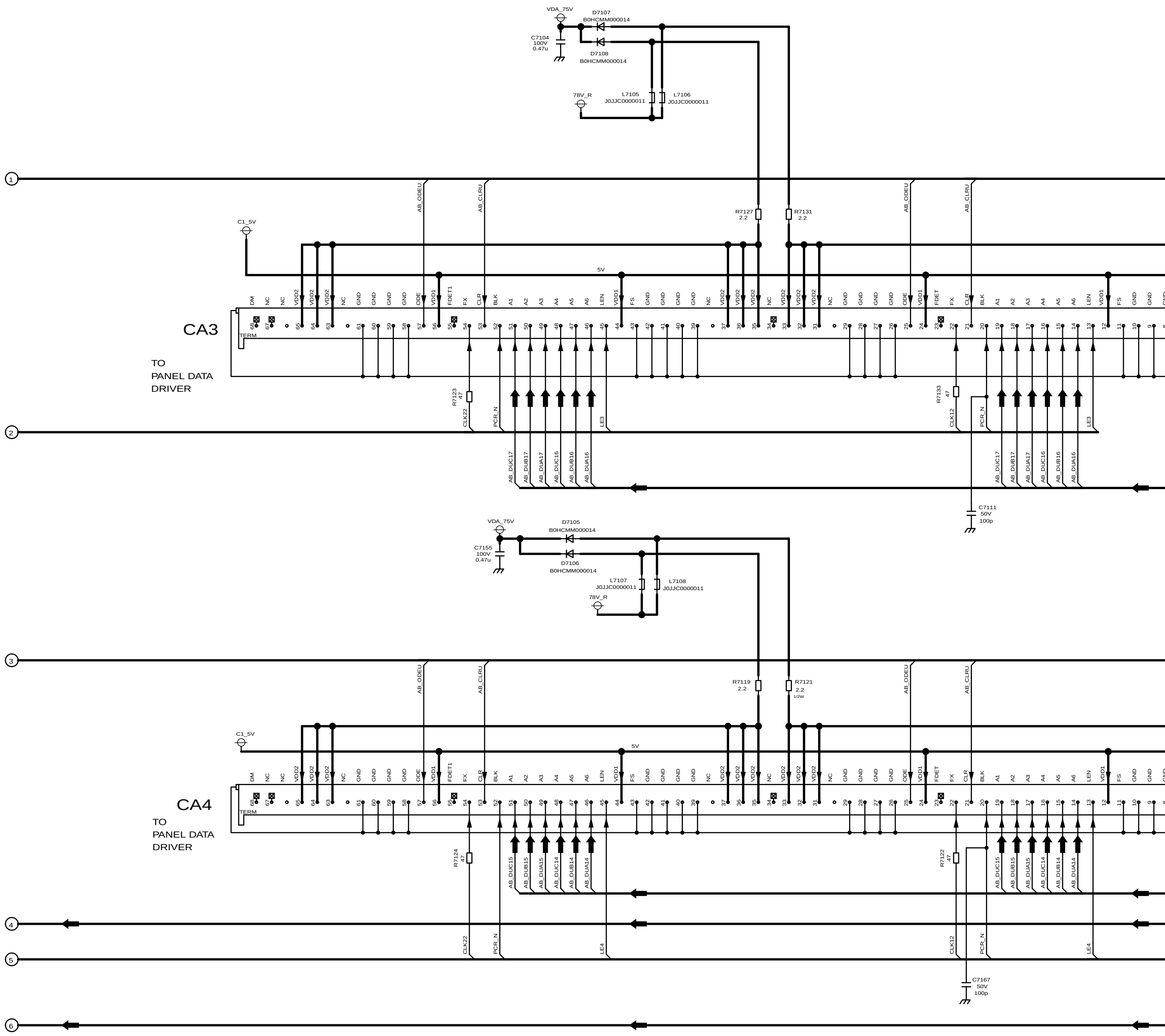

D7101
B0HCMM000014
VDA_75V
C7107
100V
0.47u
D7102
B0HCMM000014
L7101
J0JJC0000011
L7102
J0JJC0000011
78V_R
AB_ODEU
AB_CLRU
C1_5V
C7102
16V
1u
5V
VDD2
NC
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
DM
SIDE
R7117
47
CLK11
PCR_N
LE1
C7150
50V
100p
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
D7103
B0HCMM000014
VDA_75V
C7103
100V
0.47u
D7104
B0HCMM000014
L7103
J0JJC0000011
L7104
J0JJC0000011
78V_R
R7113
2.2
C1_5V
R7116
47
LE2
C7152
50V
100p
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
①
②
③
④
⑤
⑥

TH-65PHD8 SERIES
C1-Board (1 of 2) Schematic Diagram

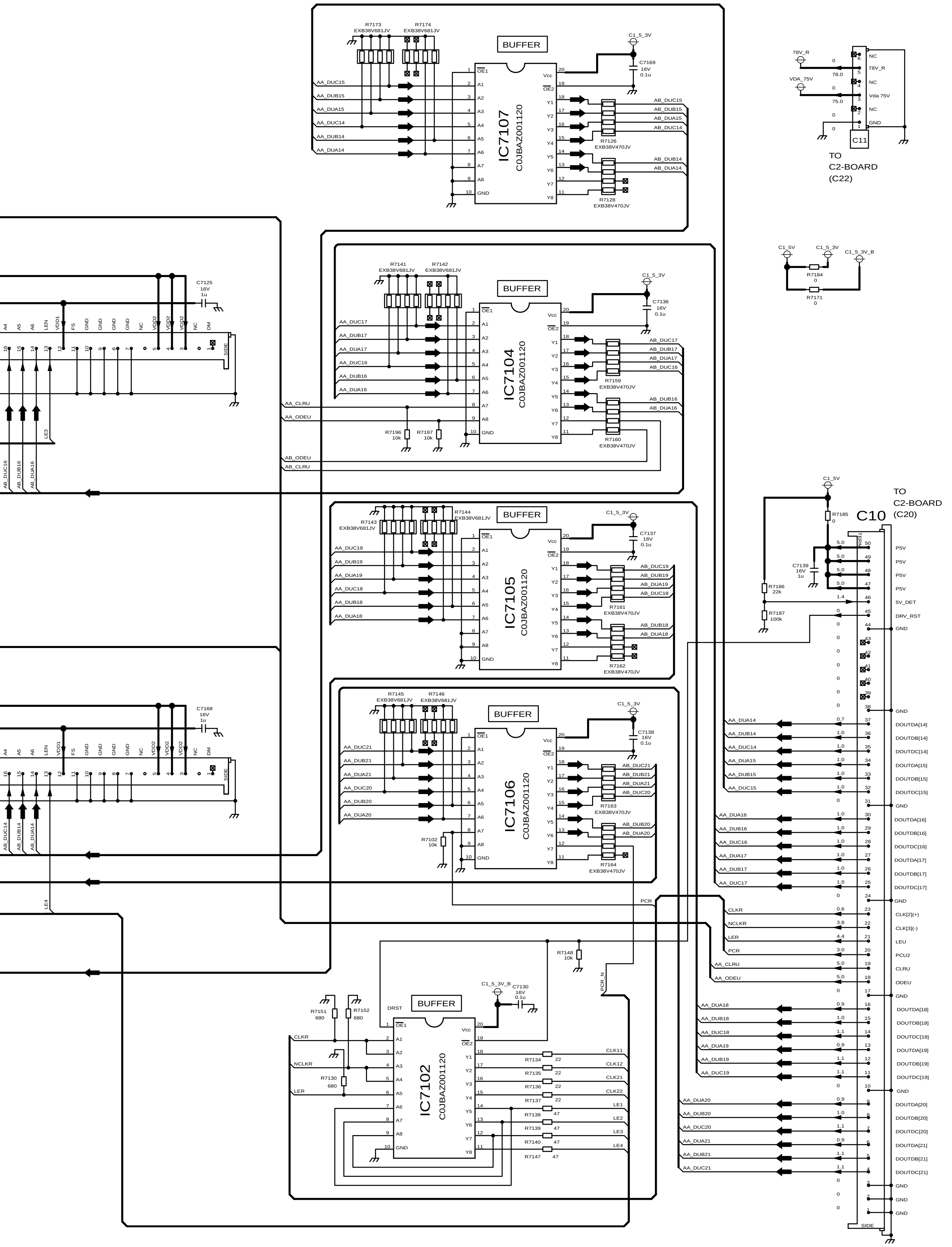
5 6 7 8 9

15.37. C1-Board (2 of 2) Schematic Diagram

C1-BOARD TNPA3663 (2/2)


VDA_75V
D7107
B0HCMM000014
C7104
100V
0.47u
D7108
B0HCMM000014
78V_R
L7105
J0JJC0000011
L7106
J0JJC0000011
1
AB_ODEU
AB_CLRU
R7127
2.2
R7131
2.2
C1_5V
5V
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
FDET
CA3
TERM
TO
PANEL DATA
DRIVER
R7123
47
R7133
47
CLK22
PCR_N
LE3
CLK12
2
AB_DUC17
AB_DUB17
AB_DUA17
AB_DUC16
AB_DUB16
AB_DUA16
C7111
50V
100p
VDA_75V
D7105
B0HCMM000014
C7155
100V
0.47u
D7106
B0HCMM000014
L7107
J0JJC0000011
L7108
J0JJC0000011
78V_R
3
R7119
2.2
R7121
2.2
1/2W
CA4
TO
PANEL DATA
DRIVER
R7124
47
R7122
47
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
4
5
CLK22
PCR_N
LE4
CLK12
C7167
50V
100p
6

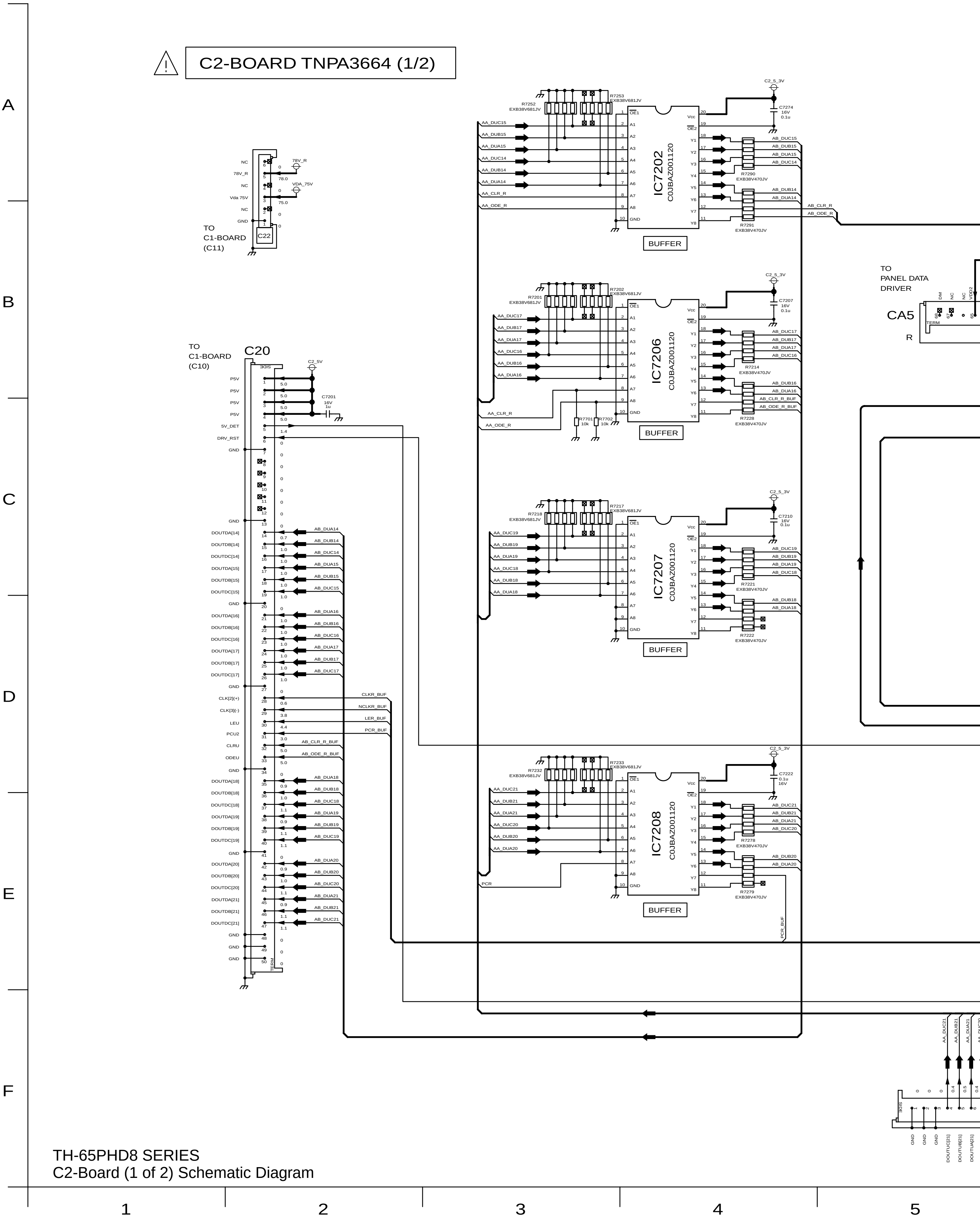
TH-65PHD8 SERIES
C1-Board (2 of 2) Schematic Diagram


BUFFER
IC7107
C0JBAZ001120
R7173 EXB38V681JV
R7174 EXB38V681JV
C1_5_3V
C7169 16V 0.1u
R7126 EXB38V470JV
R7128 EXB38V470JV
AA_DUC15
AA_DUB15
AA_DUA15
AA_DUC14
AA_DUB14
AA_DUA14
AB_DUC15
AB_DUB15
AB_DUA15
AB_DUC14
AB_DUB14
AB_DUA14
IC7104
R7141 EXB38V681JV
R7142 EXB38V681JV
C7136 16V 0.1u
R7159 EXB38V470JV
R7160 EXB38V470JV
R7196 10k
R7197 10k
AA_CLRU
AA_ODEU
AB_ODEU
AB_CLRU
C7125 16V 1u
IC7105
R7143 EXB38V681JV
R7144 EXB38V681JV
C7137 16V 0.1u
R7161 EXB38V470JV
R7162 EXB38V470JV
IC7106
R7145 EXB38V681JV
R7146 EXB38V681JV
C7138 16V 0.1u
R7163 EXB38V470JV
R7164 EXB38V470JV
R7102 10k
C7168 16V 1u
IC7102
C1_5_3V_B
C7130 16V 0.1u
R7151 680
R7152 680
R7130 680
R7148 10k
R7134 22
R7135 22
R7136 22
R7137 22
R7138 47
R7139 47
R7140 47
R7147 47
CLKR
NCLKR
LER
DRST
CLK11
CLK12
CLK21
CLK22
LE1
LE2
LE3
LE4
PCR
PCR_N
78V_R
VDA_75V
C11
TO
C2-BOARD
(C22)
C1_5V
R7184 0
R7171 0
C1_5_3V_B
R7185 0
C10
TO
C2-BOARD
(C20)
C7139 16V 1u
R7186 22k
R7187 100k
P5V
5V_DET
DRV_RST
GND
DOUTDA[14]
DOUTDB[14]
DOUTDC[14]
DOUTDA[15]
DOUTDB[15]
DOUTDC[15]
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
CLK[2](+)
CLK[3](-)
LEU
PCU2
CLRU
ODEU
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
SIDE

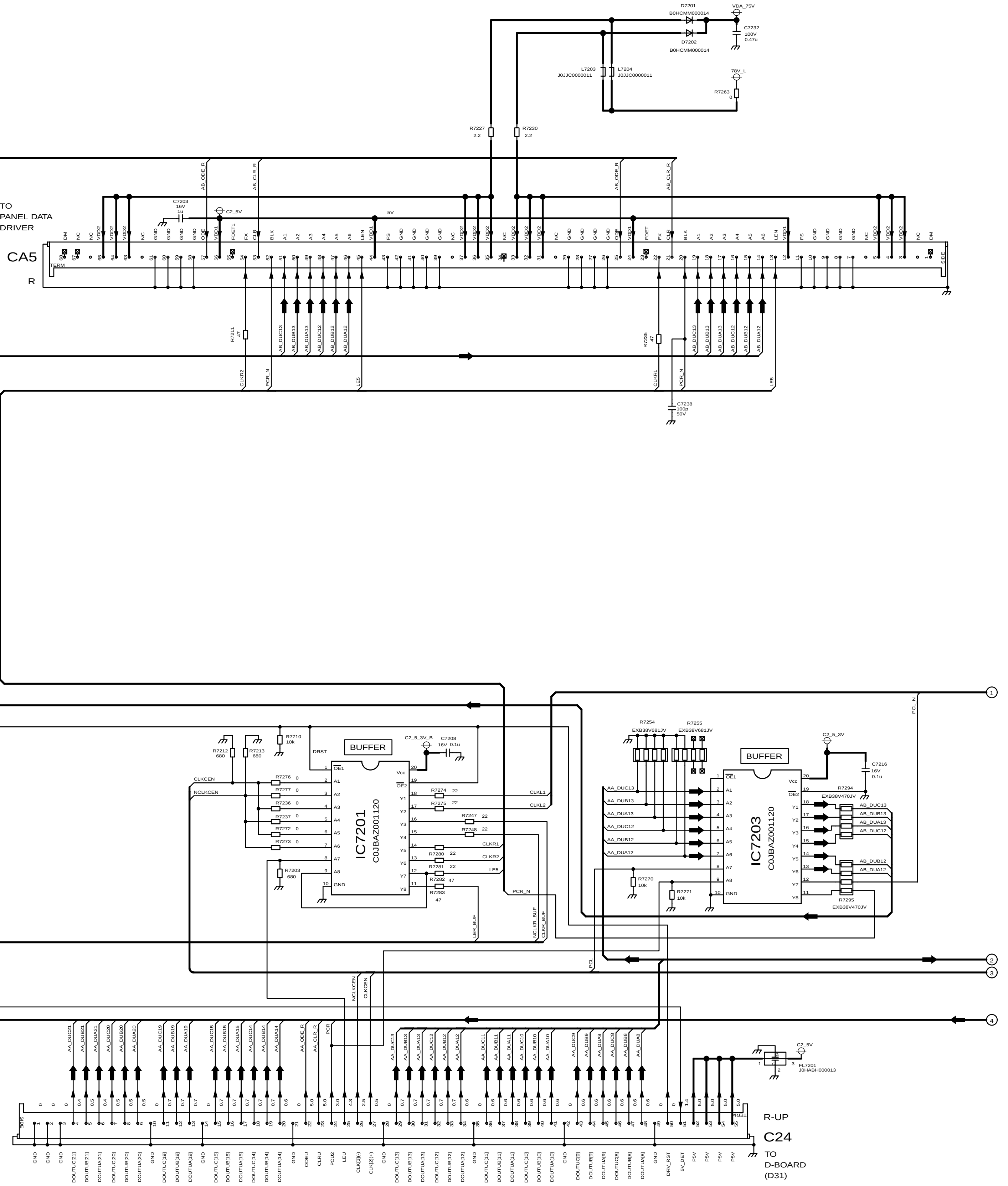
TH-65PHD8 SERIES
C1-Board (2 of 2) Schematic Diagram

14 15 16 17 18

15.38. C2-Board (1 of 2) Schematic Diagram


C2-BOARD TNPA3664 (1/2)
A
B
C
D
E
F
1
2
3
4
5
TO C1-BOARD (C11)
C22
NC
78V_R
NC
Vda 75V
NC
GND
78V_R
VDA_75V
78.0
75.0
TO C1-BOARD (C10)
C20
C2_5V
C7201 16V 1u
P5V
5V_DET
DRV_RST
GND
DOUTDA[14]
DOUTDB[14]
DOUTDC[14]
CLK[2](+)
CLK[3](-)
LEU
PCU2
CLRU
ODEU
CLKR_BUF
NCLKR_BUF
LER_BUF
PCR_BUF
AB_CLR_R_BUF
AB_ODE_R_BUF
TERM
IC7202
C0JBAZ001120
IC7206
C0JBAZ001120
IC7207
C0JBAZ001120
IC7208
C0JBAZ001120
BUFFER
BUFFER
BUFFER
BUFFER
R7252 EXB38V681JV
R7253 EXB38V681JV
R7201 EXB38V681JV
R7202 EXB38V681JV
R7218 EXB38V681JV
R7217 EXB38V681JV
R7232 EXB38V681JV
R7233 EXB38V681JV
R7290 EXB38V470JV
R7291 EXB38V470JV
R7214 EXB38V470JV
R7228 EXB38V470JV
R7221 EXB38V470JV
R7222 EXB38V470JV
R7278 EXB38V470JV
R7279 EXB38V470JV
R7701 10k
R7702 10k
C7274 16V 0.1u
C7207 16V 0.1u
C7210 16V 0.1u
C7222 0.1u 16V
C2_5_3V
AA_CLR_R
AA_ODE_R
AB_CLR_R
AB_ODE_R
PCR
PCR_BUF
TO PANEL DATA DRIVER
CA5
R
DM
NC
VDD2
GND
DOUTDC[21]
DOUTDB[21]
DOUTDA[21]
AA_DUC21
AA_DUB21
AA_DUA21

TH-65PHD8 SERIES
C2-Board (1 of 2) Schematic Diagram

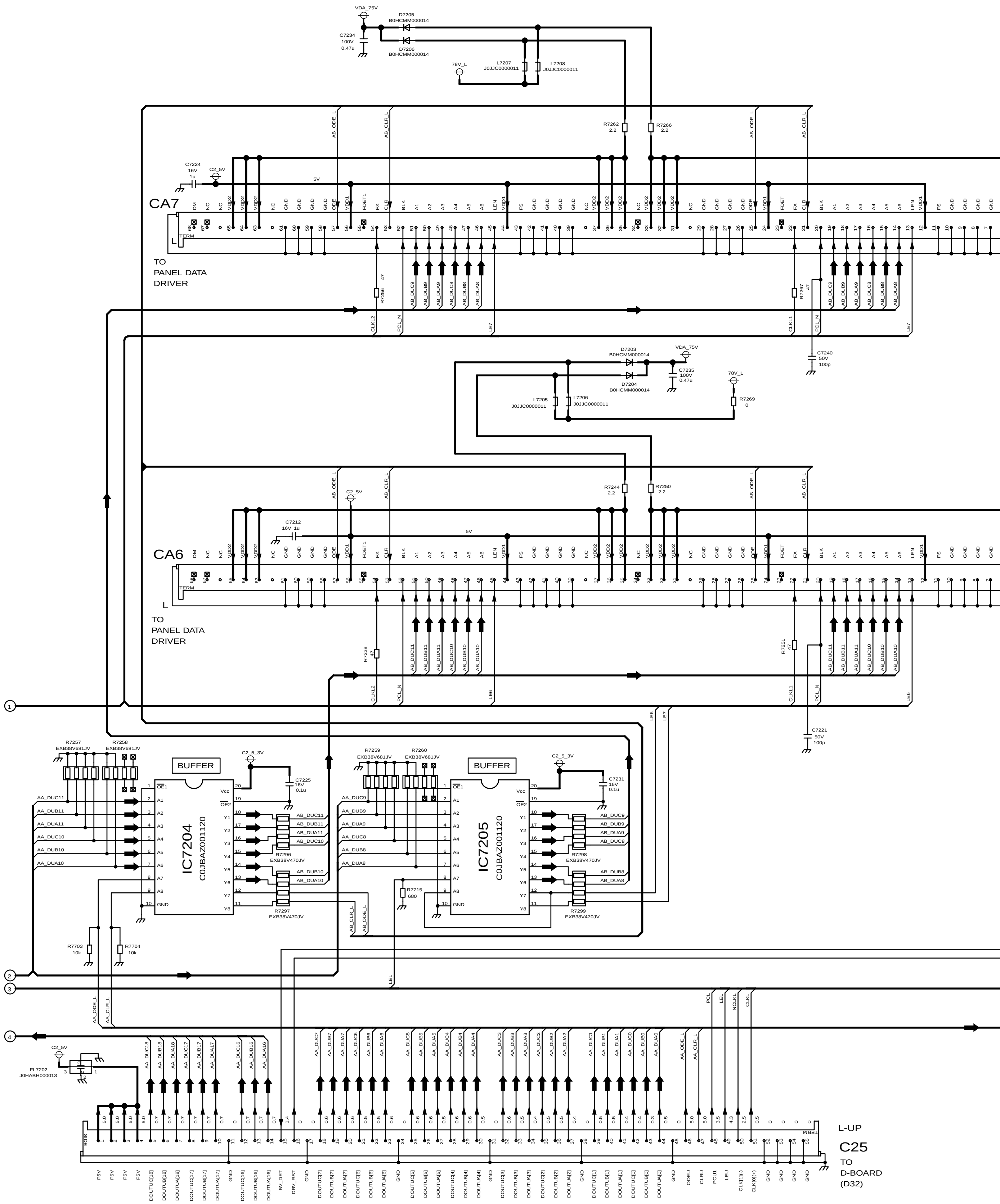

TO
PANEL DATA
DRIVER
CA5
R
TERM
SIDE
D7201
B0HCMM000014
D7202
B0HCMM000014
VDA_75V
C7232
100V
0.47u
L7203
J0JJC0000011
L7204
J0JJC0000011
78V_L
R7263
0
R7227
2.2
R7230
2.2
AB_ODE_R
AB_CLR_R
C7203
16V
1u
C2_5V
5V
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
R7211
47
R7235
47
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
CLKR2
PCR_N
LE5
CLKR1
C7238
100p
50V
BUFFER
IC7201
C0JBAZ001120
R7710
10k
R7212
680
R7213
680
DRST
C2_5_3V_B
C7208
16V
0.1u
CLKCEN
NCLKCEN
R7276 0
R7277 0
R7236 0
R7237 0
R7272 0
R7273 0
R7203
680
OE1
A1
A2
A3
A4
A5
A6
A7
A8
GND
Vcc
OE2
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
R7274 22
R7275 22
R7247 22
R7248 22
R7280 22
R7281 22
R7282 47
R7283 47
CLKL1
CLKL2
CLKR1
CLKR2
LE5
PCR_N
LER_BUF
NCLKR_BUF
CLKR_BUF
PCL
PCL_N
R7254
EXB38V681JV
R7255
EXB38V681JV
BUFFER
IC7203
C0JBAZ001120
C2_5_3V
C7216
16V
0.1u
R7294
EXB38V470JV
R7295
EXB38V470JV
AA_DUC13
AA_DUB13
AA_DUA13
AA_DUC12
AA_DUB12
AA_DUA12
AB_DUC13
AB_DUB13
AB_DUA13
AB_DUC12
AB_DUB12
AB_DUA12
R7270
10k
R7271
10k
1
2
3
4
NCLKCEN
CLKCEN
AA_DUC21
AA_DUB21
AA_DUA21
AA_DUC20
AA_DUB20
AA_DUA20
AA_DUC19
AA_DUB19
AA_DUA19
AA_DUC15
AA_DUB15
AA_DUA15
AA_DUC14
AA_DUB14
AA_DUA14
AA_ODE_R
AA_CLR_R
PCR
AA_DUC13
AA_DUB13
AA_DUA13
AA_DUC12
AA_DUB12
AA_DUA12
AA_DUC11
AA_DUB11
AA_DUA11
AA_DUC10
AA_DUB10
AA_DUA10
AA_DUC9
AA_DUB9
AA_DUA9
AA_DUC8
AA_DUB8
AA_DUA8
C2_5V
FL7201
J0HABH000013
GND
DOUTUC[21]
DOUTUB[21]
DOUTUA[21]
DOUTUC[20]
DOUTUB[20]
DOUTUA[20]
DOUTUC[19]
DOUTUB[19]
DOUTUA[19]
DOUTUC[15]
DOUTUB[15]
DOUTUA[15]
DOUTUC[14]
DOUTUB[14]
DOUTUA[14]
ODEU
CLRU
PCU2
LEU
CLK[3](-)
CLK[2](+)
DOUTUC[13]
DOUTUB[13]
DOUTUA[13]
DOUTUC[12]
DOUTUB[12]
DOUTUA[12]
DOUTUC[11]
DOUTUB[11]
DOUTUA[11]
DOUTUC[10]
DOUTUB[10]
DOUTUA[10]
DOUTUC[9]
DOUTUB[9]
DOUTUA[9]
DOUTUC[8]
DOUTUB[8]
DOUTUA[8]
DRV_RST
5V_DET
P5V
R-UP
C24
TO
D-BOARD
(D31)

TH-65PHD8 SERIES C2-Board (1 of 2) Schematic Diagram

5 6 7 8 9

15.39. C2-Board (2 of 2) Schematic Diagram

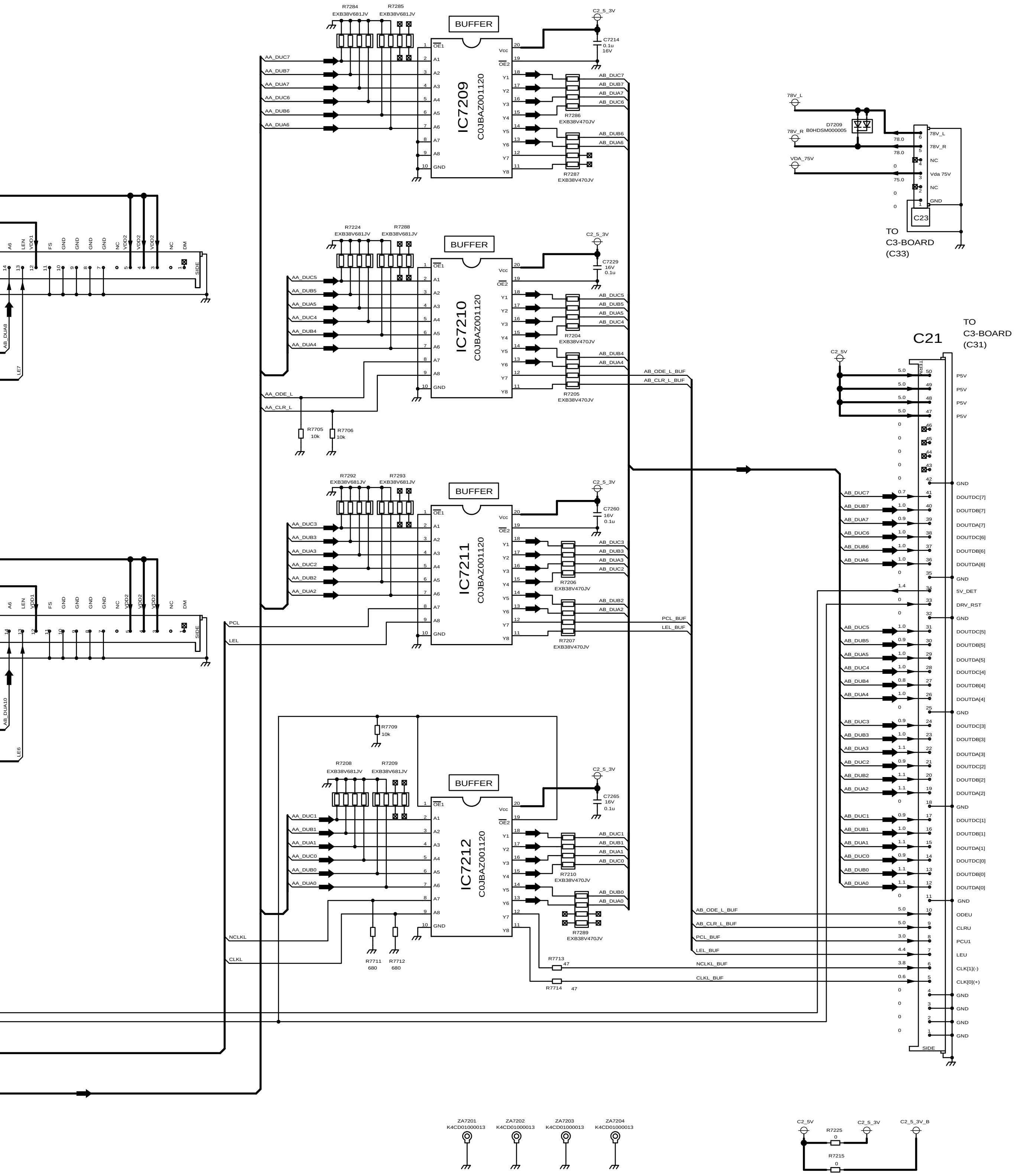
⚠ C2-BOARD TNPA3664 (2/2)



VDA_75V
D7205 B0HCMM000014
D7206 B0HCMM000014
C7234 100V 0.47u
78V_L
L7207 J0JJC0000011
L7208 J0JJC0000011
R7262 2.2
R7266 2.2
C7224 16V 1u
C2_5V
5V
CA7
TERM
TO PANEL DATA DRIVER
R7256 47
R7267 47
AB_ODE_L
AB_CLR_L
CLKL2
PCL_N
LE7
CLKL1
D7203 B0HCMM000014
D7204 B0HCMM000014
C7235 100V 0.47u
C7240 50V 100p
L7205 J0JJC0000011
L7206 J0JJC0000011
R7269 0
R7244 2.2
R7250 2.2
C7212 16V 1u
CA6
R7238 47
R7251 47
LE6
C7221 50V 100p
R7257 EXB38V681JV
R7258 EXB38V681JV
BUFFER
IC7204
C0JBAZ001120
C7225 16V 0.1u
C2_5_3V
R7296 EXB38V470JV
R7297 EXB38V470JV
R7703 10k
R7704 10k
R7259 EXB38V681JV
R7260 EXB38V681JV
IC7205
C0JBAZ001120
C7231 16V 0.1u
R7298 EXB38V470JV
R7299 EXB38V470JV
R7715 680
LEL
PCL
NCLK1
CLKL
FL7202 J0HABH000013
C2_5V
L-UP
C25
TO D-BOARD (D32)

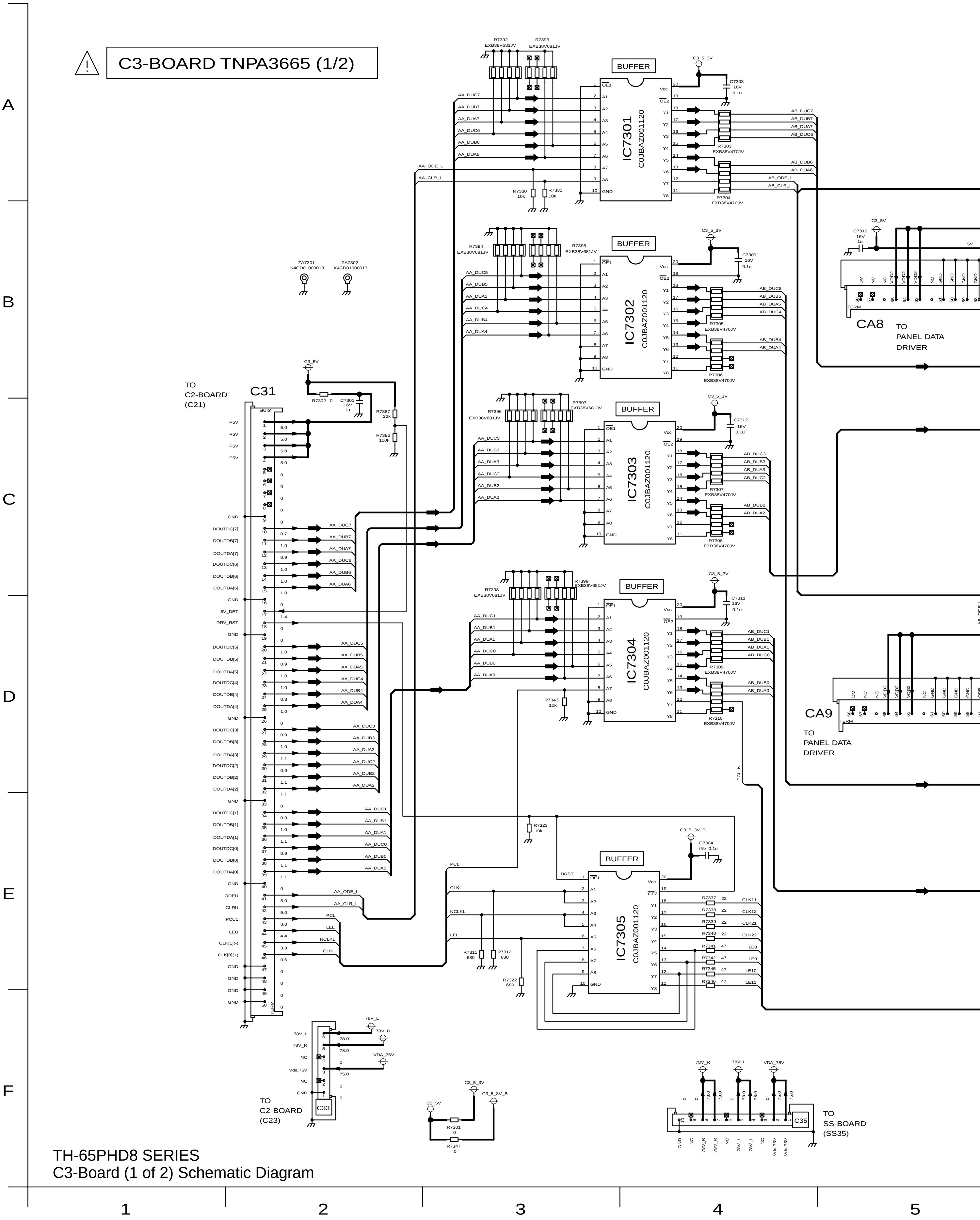
TH-65PHD8 SERIES C2-Board (2 of 2) Schematic Diagram

10 11 12 13 14

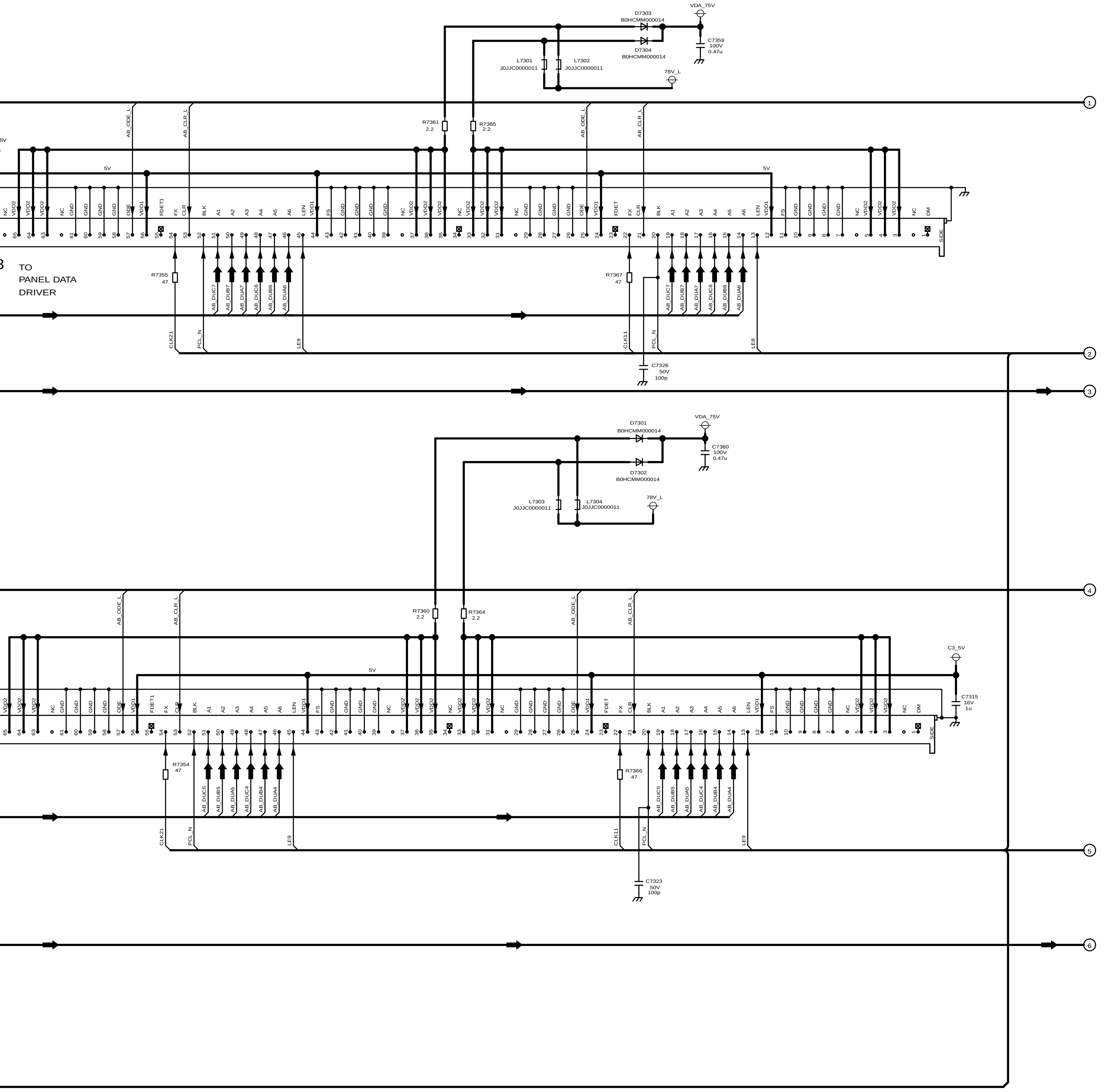

BUFFER
IC7209
C0JBAZ001120
IC7210
C0JBAZ001120
IC7211
C0JBAZ001120
IC7212
C0JBAZ001120
R7284 EXB38V681JV
R7285 EXB38V681JV
R7286 EXB38V470JV
R7287 EXB38V470JV
R7224 EXB38V681JV
R7288 EXB38V681JV
R7204 EXB38V470JV
R7205 EXB38V470JV
R7292 EXB38V681JV
R7293 EXB38V681JV
R7206 EXB38V470JV
R7207 EXB38V470JV
R7208 EXB38V681JV
R7209 EXB38V681JV
R7210 EXB38V470JV
R7289 EXB38V470JV
C2_5_3V
C7214 0.1u 16V
C7229 16V 0.1u
C7260 16V 0.1u
C7265 16V 0.1u
R7705 10k
R7706 10k
R7709 10k
R7711 680
R7712 680
R7713 47
R7714 47
AA_ODE_L
AA_CLR_L
AB_ODE_L_BUF
AB_CLR_L_BUF
PCL_BUF
LEL_BUF
NCLKL_BUF
CLKL_BUF
PCL
LEL
NCLKL
CLKL
AB_DUA8
AB_DUA10
LE7
LE6
78V_L
78V_R
VDA_75V
D7209 B0HDSM000005
C23
TO C3-BOARD (C33)
C21
TO C3-BOARD (C31)
C2_5V
P5V
GND
DOUTDC[7]
DOUTDB[7]
DOUTDA[7]
5V_DET
DRV_RST
ODEU
CLRU
PCU1
LEU
CLK[1](-)
CLK[0](+)
SIDE
ZA7201 K4CD01000013
ZA7202 K4CD01000013
ZA7203 K4CD01000013
ZA7204 K4CD01000013
C2_5_3V_B
R7225 0
R7215 0

TH-65PHD8 SERIES
C2-Board (2 of 2) Schematic Diagram

15.40. C3-Board (1 of 2) Schematic Diagram


C3-BOARD TNPA3665 (1/2)
A
B
C
D
E
F
1
2
3
4
5
BUFFER
IC7301
C0JBAZ001120
IC7302
IC7303
IC7304
IC7305
R7392
R7393
EXB38V681JV
R7303
R7304
EXB38V470JV
C7308 16V 0.1u
C3_5_3V
AA_DUC7
AA_DUB7
AA_DUA7
AA_DUC6
AA_DUB6
AA_DUA6
AA_ODE_L
AA_CLR_L
AB_DUC7
AB_DUB7
AB_DUA7
AB_DUC6
AB_DUB6
AB_DUA6
AB_ODE_L
AB_CLR_L
R7330 10k
R7331 10k
ZA7301 K4CD01000013
ZA7302 K4CD01000013
TO C2-BOARD (C21)
C31
C3_5V
R7302 0
C7301 16V 1u
R7387 22k
R7386 100k
P5V
GND
DOUTDC[7]
DOUTDB[7]
DOUTDA[7]
5V_DET
DRV_RST
ODEU
CLRU
PCU1
LEU
CLK[1](-)
CLK[0](+)
TERM
CA8
TO PANEL DATA DRIVER
CA9
TO PANEL DATA DRIVER
C7316 16V 1u
C3_5_3V_B
C7304 16V 0.1u
DRST
PCL
CLKL
NCLKL
LEL
R7311 680
R7312 680
R7322 680
R7323 10k
R7343 10k
CLK11
CLK12
CLK21
CLK22
LE8
LE9
LE10
LE11
PCL_N
78V_L
78V_R
VDA_75V
Vda 75V
NC
TO C2-BOARD (C23)
C33
R7301 0
R7347 0
C35
TO SS-BOARD (SS35)

TH-65PHD8 SERIES
C3-Board (1 of 2) Schematic Diagram

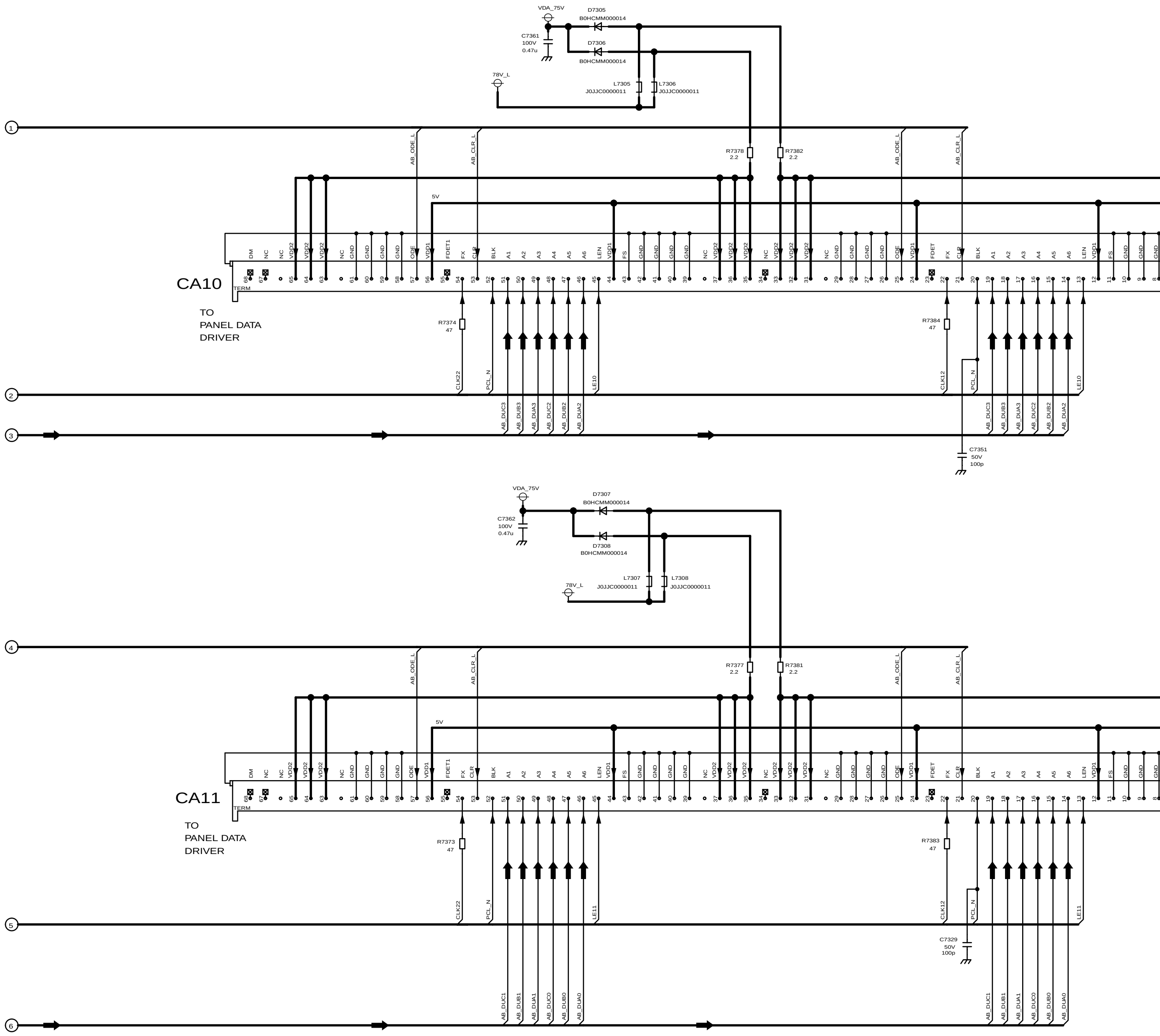

D7303
B0HCMM000014
VDA_75V
C7359
100V
0.47u
D7304
B0HCMM000014
L7301
J0JJC0000011
L7302
J0JJC0000011
78V_L
R7361
2.2
R7365
2.2
AB_ODE_L
AB_CLR_L
5V
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
FDET
DM
SIDE
TO
PANEL DATA
DRIVER
R7355
47
R7367
47
AB_DUC7
AB_DUB7
AB_DUA7
AB_DUC6
AB_DUB6
AB_DUA6
CLK21
PCL_N
LE8
CLK11
C7326
50V
100p
D7301
B0HCMM000014
VDA_75V
C7360
100V
0.47u
D7302
B0HCMM000014
L7303
J0JJC0000011
L7304
J0JJC0000011
78V_L
R7360
2.2
R7364
2.2
C3_5V
C7315
16V
1u
R7354
47
R7366
47
AB_DUC5
AB_DUB5
AB_DUA5
AB_DUC4
AB_DUB4
AB_DUA4
LE9
C7323
50V
100p
①
②
③
④
⑤
⑥

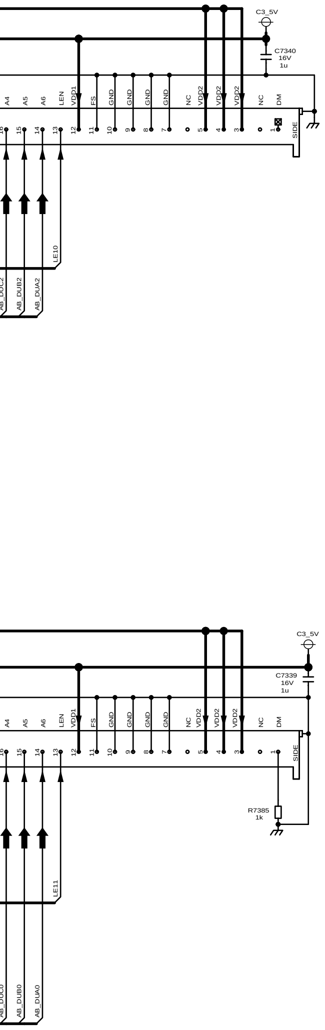
TH-65PHD8 SERIES
C3-Board (1 of 2) Schematic Diagram

5 6 7 8 9

15.41. C3-Board (2 of 2) Schematic Diagram

⚠ C3-BOARD TNPA3665 (2/2)

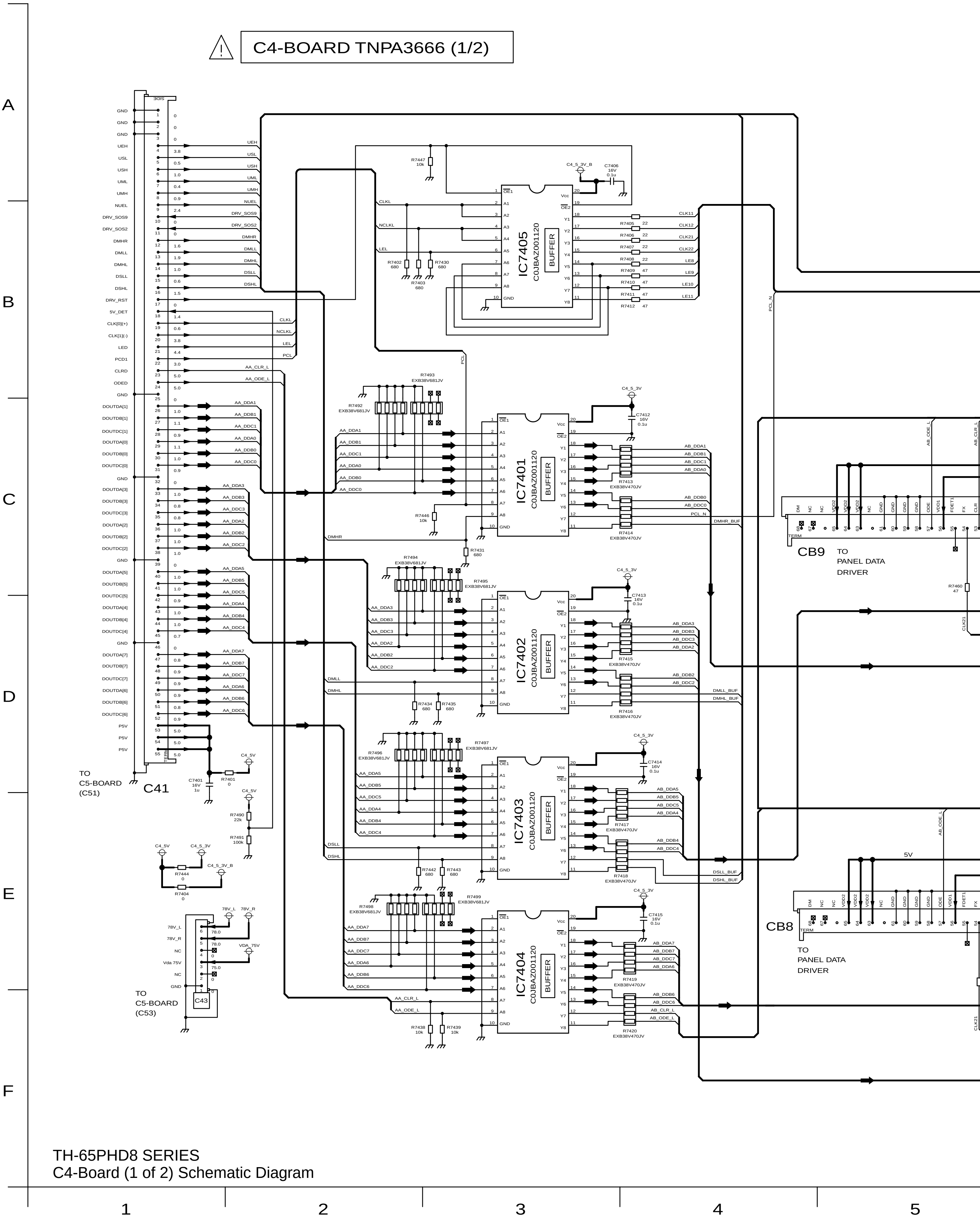

VDA_75V
D7305
B0HCMM000014
C7361
100V
0.47u
D7306
B0HCMM000014
78V_L
L7305
J0JJC0000011
L7306
J0JJC0000011
R7378
2.2
R7382
2.2
AB_ODE_L
AB_CLR_L
5V
CA10
TERM
TO
PANEL DATA
DRIVER
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
FDET
R7374
47
R7384
47
CLK22
PCL_N
LE10
CLK12
AB_DUC3
AB_DUB3
AB_DUA3
AB_DUC2
AB_DUB2
AB_DUA2
C7351
50V
100p
VDA_75V
D7307
B0HCMM000014
C7362
100V
0.47u
D7308
B0HCMM000014
78V_L
L7307
J0JJC0000011
L7308
J0JJC0000011
R7377
2.2
R7381
2.2
CA11
R7373
47
R7383
47
LE11
C7329
50V
100p
AB_DUC1
AB_DUB1
AB_DUA1
AB_DUC0
AB_DUB0
AB_DUA0
1
2
3
4
5
6


C3_5V
C7340
16V
1u
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
16
15
14
13
12
11
10
9
8
7
5
4
3
1
SIDE
LE10
AB_DUC2
AB_DUB2
AB_DUA2
C3_5V
C7339
16V
1u
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
16
15
14
13
12
11
10
9
8
7
5
4
3
1
SIDE
R7385
1k
LE11
AB_DUC0
AB_DUB0
AB_DUA0

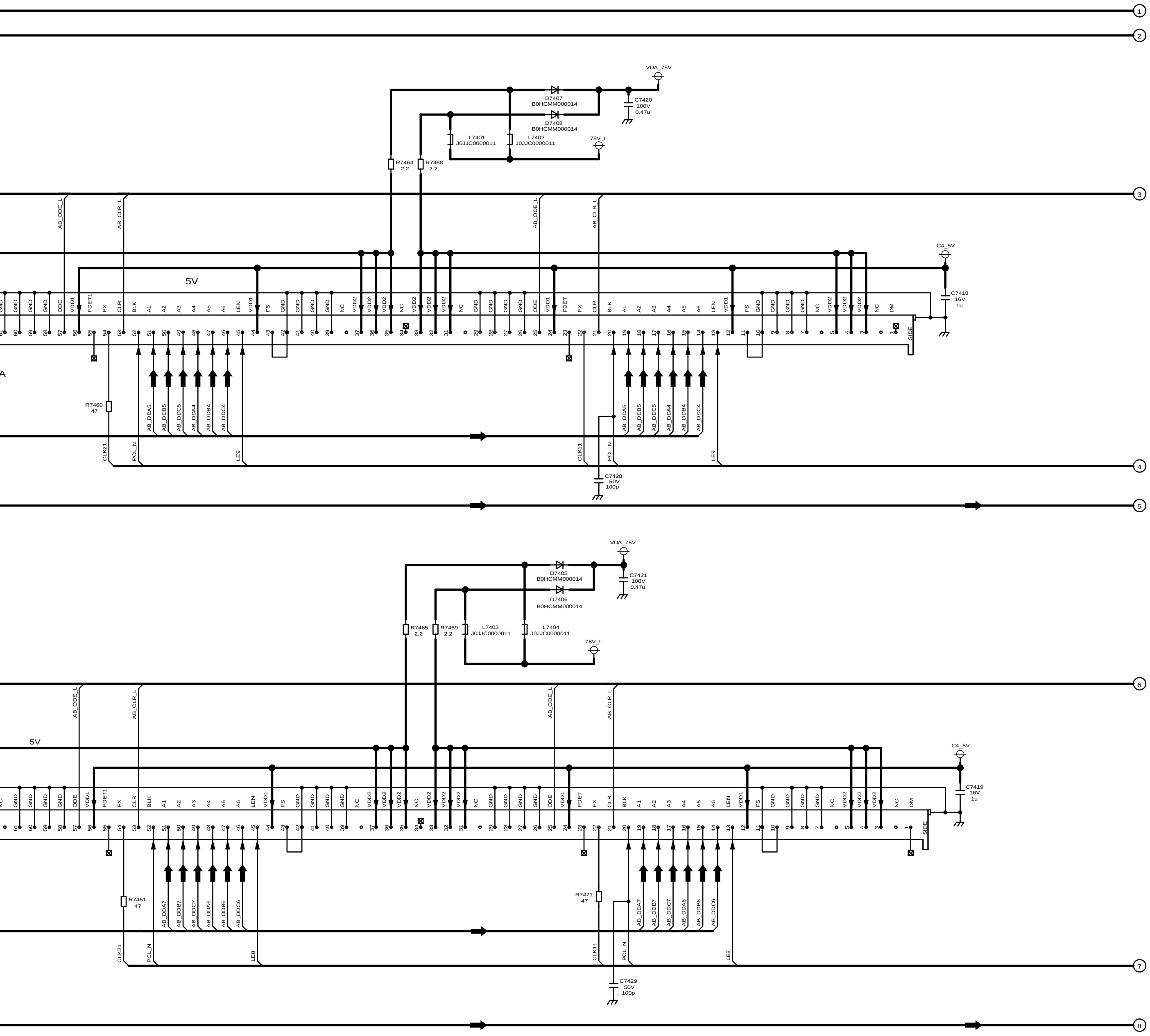
TH-65PHD8 SERIES
C3-Board (2 of 2) Schematic Diagram

14 15 16 17 18

15.42. C4-Board (1 of 2) Schematic Diagram


C4-BOARD TNPA3666 (1/2)
A
B
C
D
E
F
1
2
3
4
5
C41
TO C5-BOARD (C51)
GND
UEH
USL
USH
UML
UMH
NUEL
DRV_SOS9
DRV_SOS2
DMHR
DMLL
DMHL
DSLL
DSHL
DRV_RST
5V_DET
CLK[0](+)
CLK[1](-)
LED
PCD1
CLRD
ODED
DOUTDA[1]
DOUTDB[1]
DOUTDC[1]
DOUTDA[0]
DOUTDB[0]
DOUTDC[0]
P5V
TERM
C7401 16V 1u
R7401 0
C4_5V
R7490 22k
R7491 100k
C4_5_3V
C4_5_3V_B
R7444 0
R7404 0
78V_L
78V_R
NC
Vda 75V
VDA_75V
C43
TO C5-BOARD (C53)
IC7405
C0JBAZ001120
BUFFER
IC7401
IC7402
IC7403
IC7404
OE1
OE2
Vcc
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
R7447 10k
C7406 16V 0.1u
CLKL
NCLKL
LEL
PCL
R7402 680
R7403 680
R7430 680
R7405 22
R7406 22
R7407 22
R7408 22
R7409 47
R7410 47
R7411 47
R7412 47
CLK11
CLK12
CLK21
CLK22
LE8
LE9
LE10
LE11
PCL_N
R7493 EXB38V681JV
R7492 EXB38V681JV
C7412 16V 0.1u
R7413 EXB38V470JV
R7414 EXB38V470JV
R7446 10k
R7431 680
AA_CLR_L
AA_ODE_L
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
DMHR_BUF
R7494 EXB38V681JV
R7495 EXB38V681JV
C7413 16V 0.1u
R7415 EXB38V470JV
R7416 EXB38V470JV
R7434 680
R7435 680
DMLL_BUF
DMHL_BUF
R7496 EXB38V681JV
R7497 EXB38V681JV
C7414 16V 0.1u
R7417 EXB38V470JV
R7418 EXB38V470JV
R7442 680
R7443 680
DSLL_BUF
DSHL_BUF
R7498 EXB38V681JV
R7499 EXB38V681JV
C7415 16V 0.1u
R7419 EXB38V470JV
R7420 EXB38V470JV
R7438 10k
R7439 10k
AB_CLR_L
AB_ODE_L
CB9
TO PANEL DATA DRIVER
CB8
TO PANEL DATA DRIVER
R7460 47
CLK21
CLK21
5V
DM
VDD2
VDD1
FDET1
FX
CLR
ODE

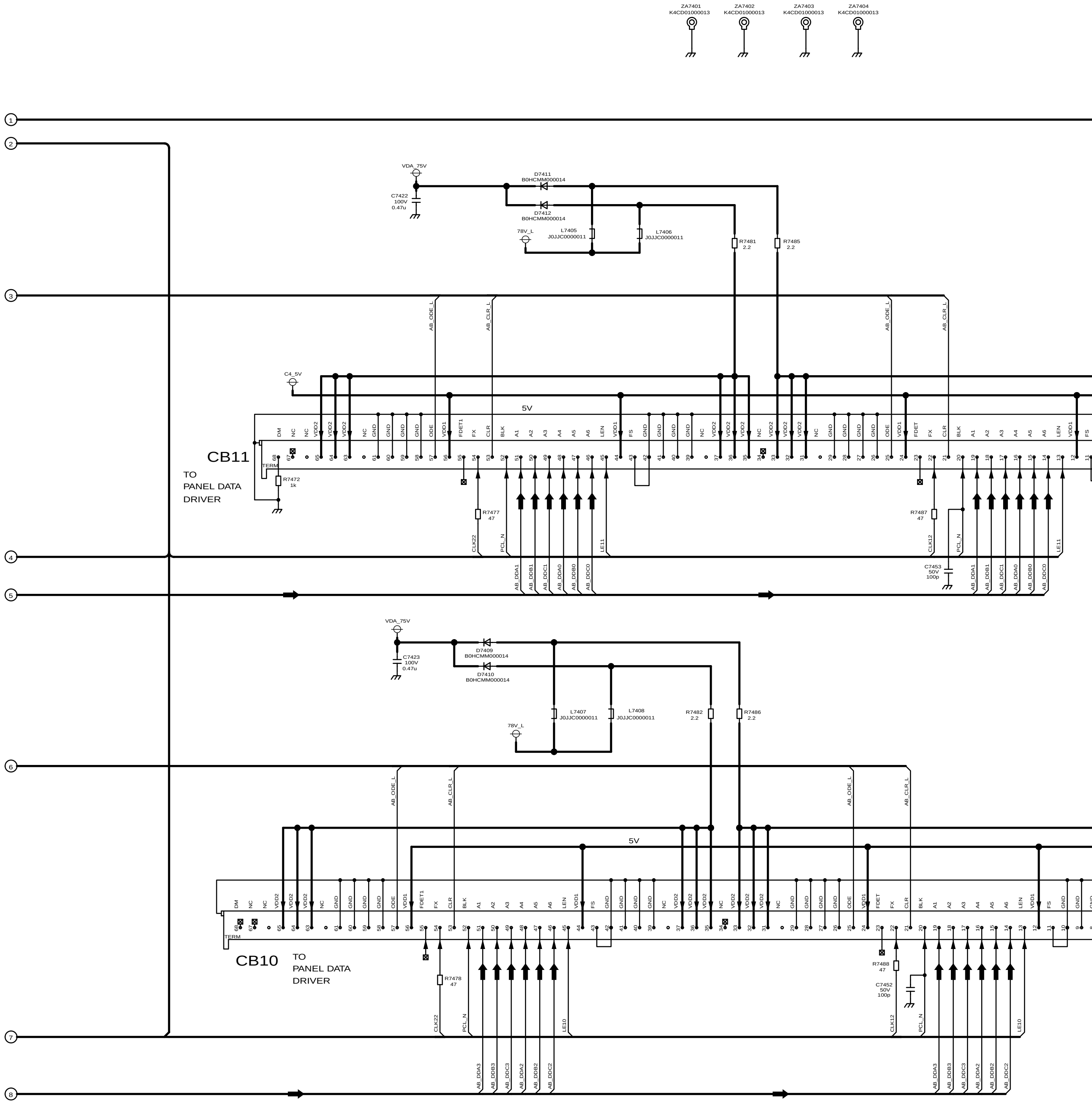
TH-65PHD8 SERIES
C4-Board (1 of 2) Schematic Diagram

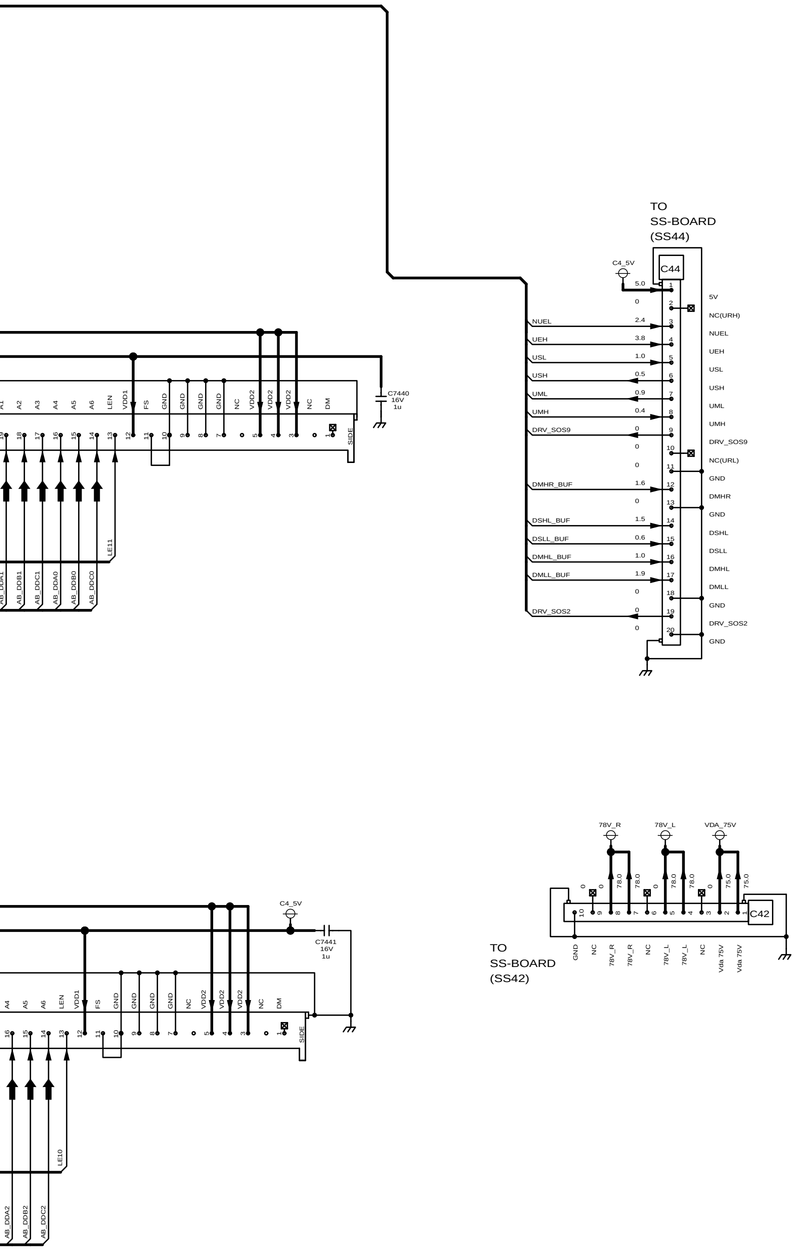

VDA_75V
D7407
B0HCMM000014
D7408
B0HCMM000014
C7420
100V
0.47u
L7401
J0JJC0000011
L7402
J0JJC0000011
78V_L
R7464
2.2
R7468
2.2
AB_ODE_L
AB_CLR_L
C4_5V
C7418
16V
1u
5V
R7460
47
AB_DDA5
AB_DDB5
AB_DDC5
AB_DDA4
AB_DDB4
AB_DDC4
CLK21
PCL_N
LE9
CLK11
C7428
50V
100p
VDA_75V
D7405
B0HCMM000014
D7406
B0HCMM000014
C7421
100V
0.47u
R7465
2.2
R7469
2.2
L7403
J0JJC0000011
L7404
J0JJC0000011
78V_L
C4_5V
C7419
16V
1u
R7461
47
R7471
47
AB_DDA7
AB_DDB7
AB_DDC7
AB_DDA6
AB_DDB6
AB_DDC6
LE8
C7429
50V
100p
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
GND
NC
VDD2
ODE
FDET
DM
SIDE
1
2
3
4
5
6
7
8
5
6
7
8
9

TH-65PHD8 SERIES
C4-Board (1 of 2) Schematic Diagram

15.43. C4-Board (2 of 2) Schematic Diagram

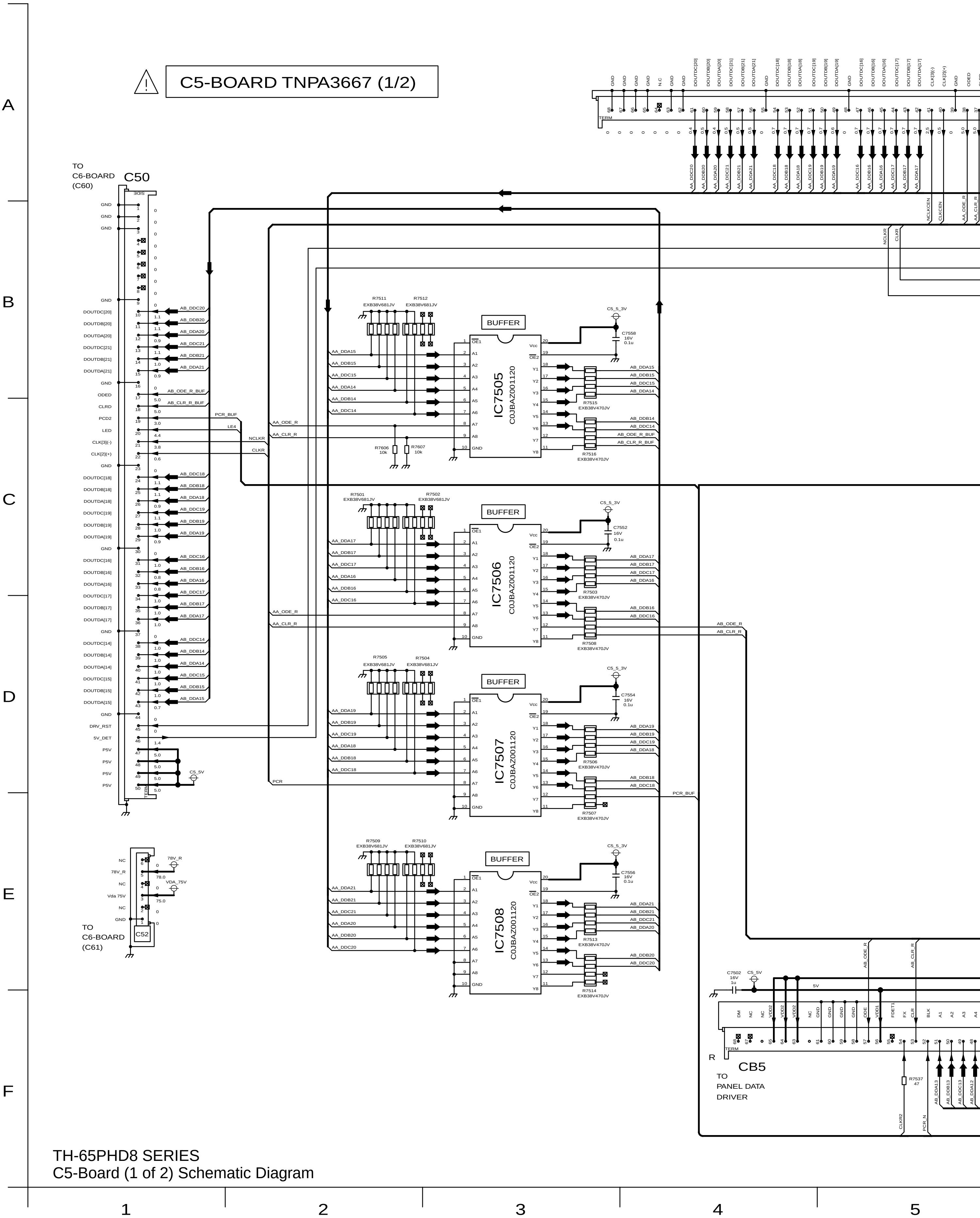
⚠ C4-BOARD TNPA3666 (2/2)


ZA7401
K4CD01000013
ZA7402
K4CD01000013
ZA7403
K4CD01000013
ZA7404
K4CD01000013
1
2
3
4
5
6
7
8
VDA_75V
C7422
100V
0.47u
D7411
B0HCMM000014
D7412
B0HCMM000014
78V_L
L7405
J0JJC0000011
L7406
J0JJC0000011
R7481
2.2
R7485
2.2
AB_ODE_L
AB_CLR_L
C4_5V
5V
CB11
TO
PANEL DATA
DRIVER
TERM
R7472
1k
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
FDET
R7477
47
R7487
47
CLK22
PCL_N
LE11
CLK12
C7453
50V
100p
AB_DDA1
AB_DDB1
AB_DDC1
AB_DDA0
AB_DDB0
AB_DDC0
VDA_75V
C7423
100V
0.47u
D7409
B0HCMM000014
D7410
B0HCMM000014
L7407
J0JJC0000011
L7408
J0JJC0000011
R7482
2.2
R7486
2.2
78V_L
CB10
TO
PANEL DATA
DRIVER
R7478
47
R7488
47
C7452
50V
100p
LE10
AB_DDA3
AB_DDB3
AB_DDC3
AB_DDA2
AB_DDB2
AB_DDC2
10
11
12
13
14

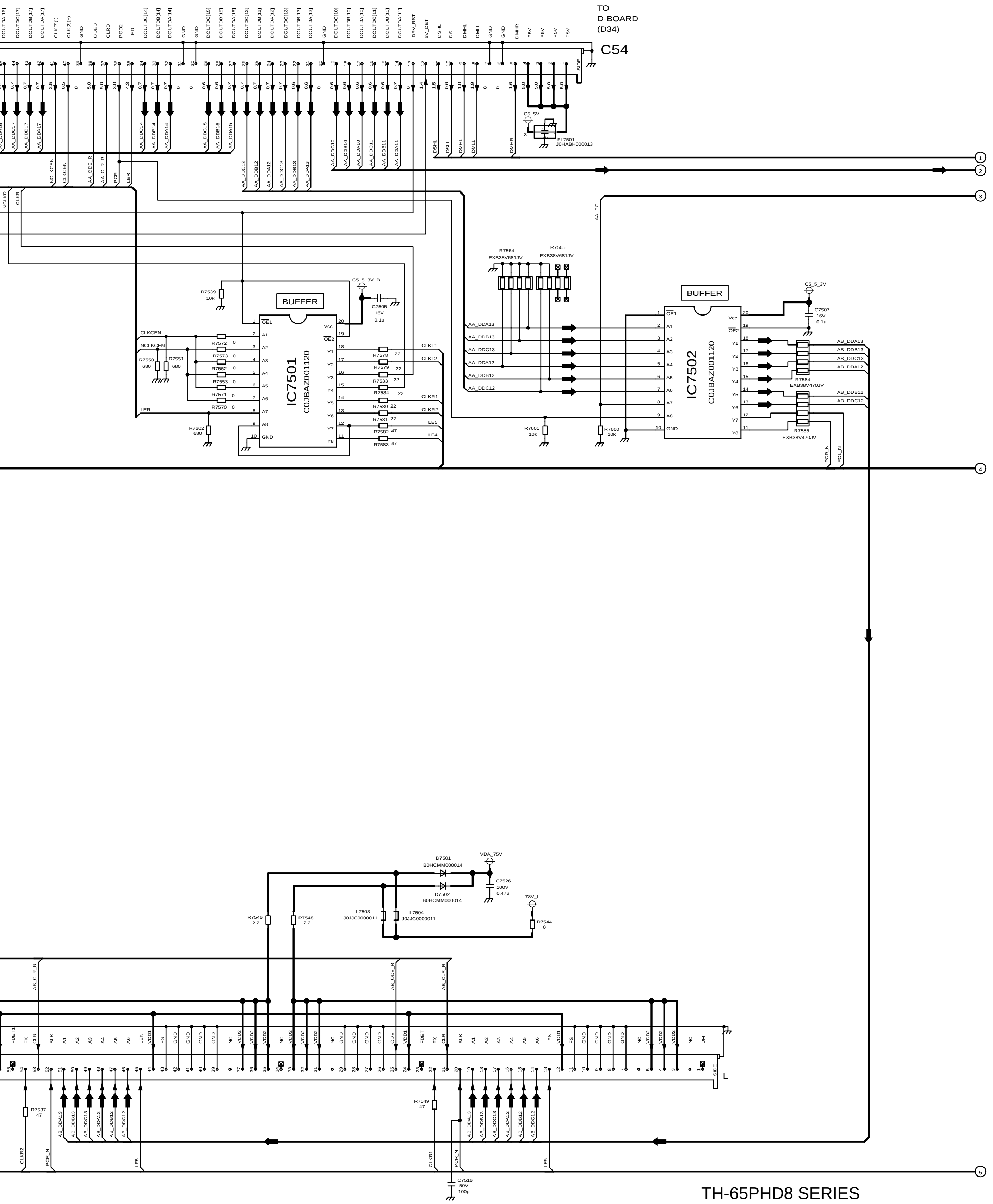

TO
SS-BOARD
(SS44)
C44
C4_5V
5.0
0
2.4
3.8
1.0
0.5
0.9
0.4
0
0
0
1.6
0
1.5
0.6
1.0
1.9
0
0
0
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
DMHR_BUF
DSHL_BUF
DSLL_BUF
DMHL_BUF
DMLL_BUF
DRV_SOS2
5V
NC(URH)
NUEL
UEH
USL
USH
UML
UMH
DRV_SOS9
NC(URL)
GND
DMHR
GND
DSHL
DSLL
DMHL
DMLL
GND
DRV_SOS2
GND
C7440
16V
1u
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
SIDE
LE11
A8_DDA1
A8_DDB1
A8_DDC1
A8_DDA0
A8_DDB0
A8_DDC0
78V_R
78V_L
VDA_75V
0
0
78.0
78.0
0
78.0
78.0
0
75.0
75.0
C42
GND
NC
78V_R
78V_R
NC
78V_L
78V_L
NC
Vda 75V
Vda 75V
TO
SS-BOARD
(SS42)
C4_5V
C7441
16V
1u
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
NC
VDD2
VDD2
VDD2
NC
DM
SIDE
LE10
A8_DDA2
A8_DDB2
A8_DDC2

TH-65PHD8 SERIES
C4-Board (2 of 2) Schematic Diagram

15.44. C5-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
C5-BOARD TNPA3667 (1/2)
TO
C6-BOARD
(C60)
C50
TO
C6-BOARD
(C61)
C52
BUFFER
IC7505
C0JBAZ001120
IC7506
C0JBAZ001120
IC7507
C0JBAZ001120
IC7508
C0JBAZ001120
C5_5_3V
C5_5V
78V_R
VDA_75V
R7511
R7512
R7501
R7502
R7505
R7504
R7509
R7510
EXB38V681JV
R7515
R7503
R7506
R7513
R7516
R7508
R7507
R7514
EXB38V470JV
R7606
R7607
10k
C7558
C7552
C7554
C7556
16V
0.1u
C7502
16V
1u
R7537
47
CB5
TO
PANEL DATA
DRIVER
TERM
GND
DOUTDC[20]
DOUTDB[20]
DOUTDA[20]
ODED
CLRD
PCD2
LED
CLK[3](-)
CLK[2](+)
DRV_RST
5V_DET
P5V
NC
Vda 75V
AB_ODE_R
AB_CLR_R
AA_ODE_R
AA_CLR_R
NCLKR
CLKR
PCR
PCR_BUF
AB_ODE_R_BUF
AB_CLR_R_BUF
NCLKCEN
CLKCEN
CLKR2
PCR_N

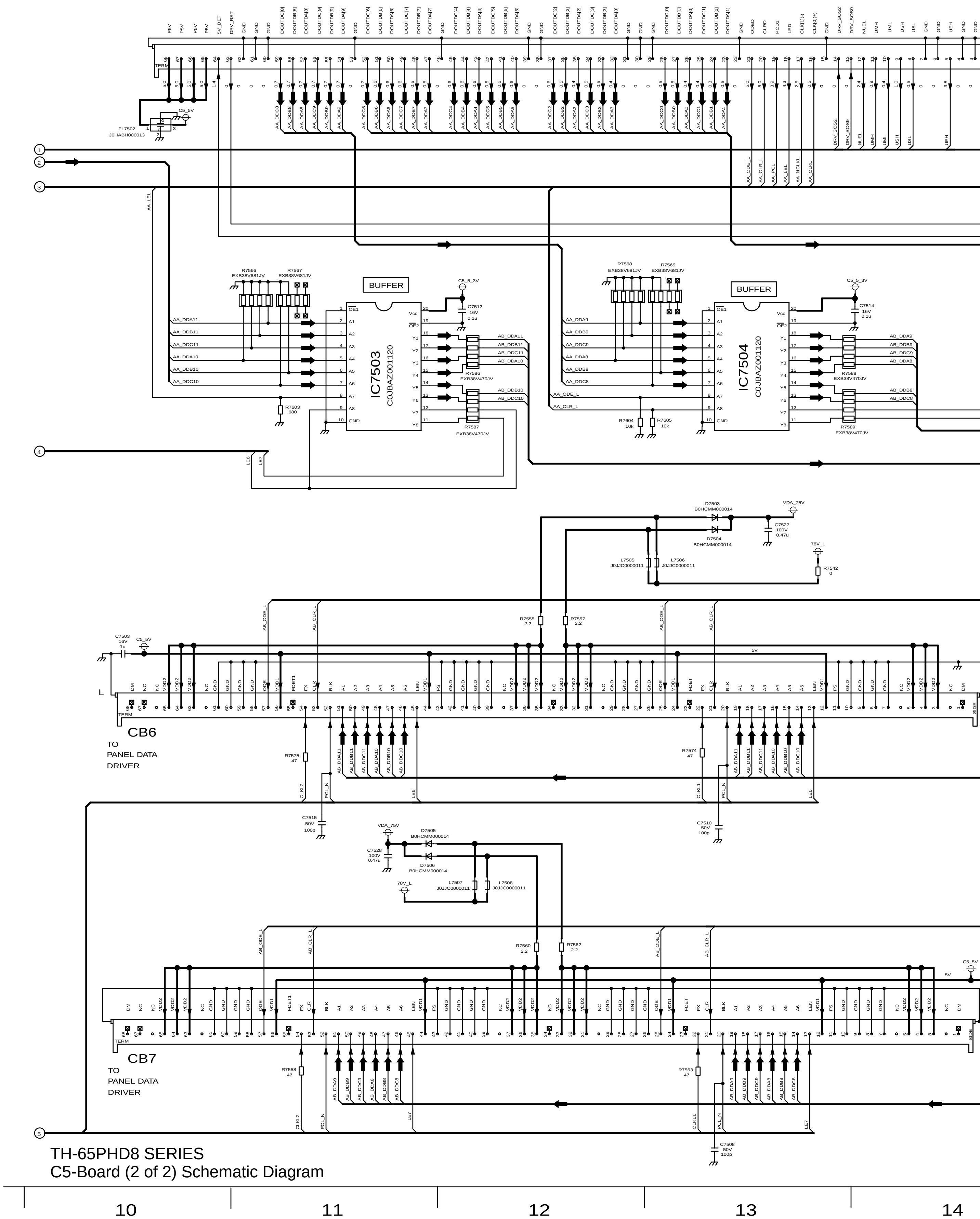
TH-65PHD8 SERIES
C5-Board (1 of 2) Schematic Diagram


TO
D-BOARD
(D34)
C54
BUFFER
IC7501
C0JBAZ001120
BUFFER
IC7502
C0JBAZ001120
C5_5V
FL7501
J0HABH000013
C5_5_3V_B
C7505
16V
0.1u
C5_5_3V
C7507
16V
0.1u
R7539
10k
R7564
EXB38V681JV
R7565
EXB38V681JV
R7584
EXB38V470JV
R7585
EXB38V470JV
R7601
10k
R7600
10k
R7602
680
R7550
680
R7551
680
CLKCEN
NCLKCEN
LER
CLKL1
CLKL2
CLKR1
CLKR2
LE5
LE4
AA_PCL
PCR_N
PCL_N
AA_DDA13
AA_DDB13
AA_DDC13
AA_DDA12
AA_DDB12
AA_DDC12
AB_DDA13
AB_DDB13
AB_DDC13
AB_DDA12
AB_DDB12
AB_DDC12
D7501
B0HCMM000014
D7502
B0HCMM000014
VDA_75V
C7526
100V
0.47u
78V_L
R7544
0
L7503
J0JJC0000011
L7504
J0JJC0000011
R7546
2.2
R7548
2.2
R7537
47
R7549
47
C7516
50V
100p
AB_CLR_R
AB_ODE_R
L
1
2
3
4
5

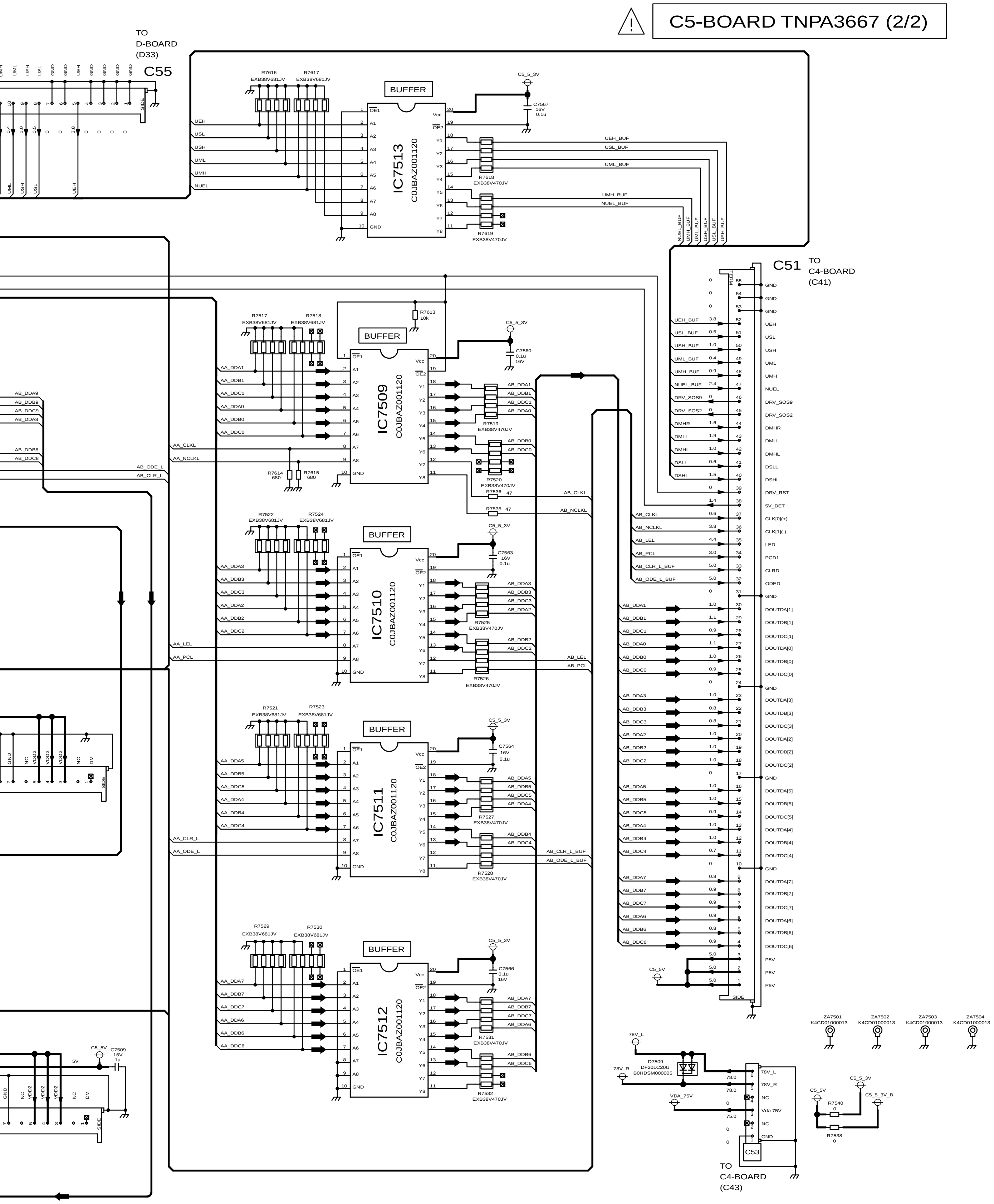
TH-65PHD8 SERIES
C5-Board (1 of 2) Schematic Diagram

5 6 7 8 9

15.45. C5-Board (2 of 2) Schematic Diagram

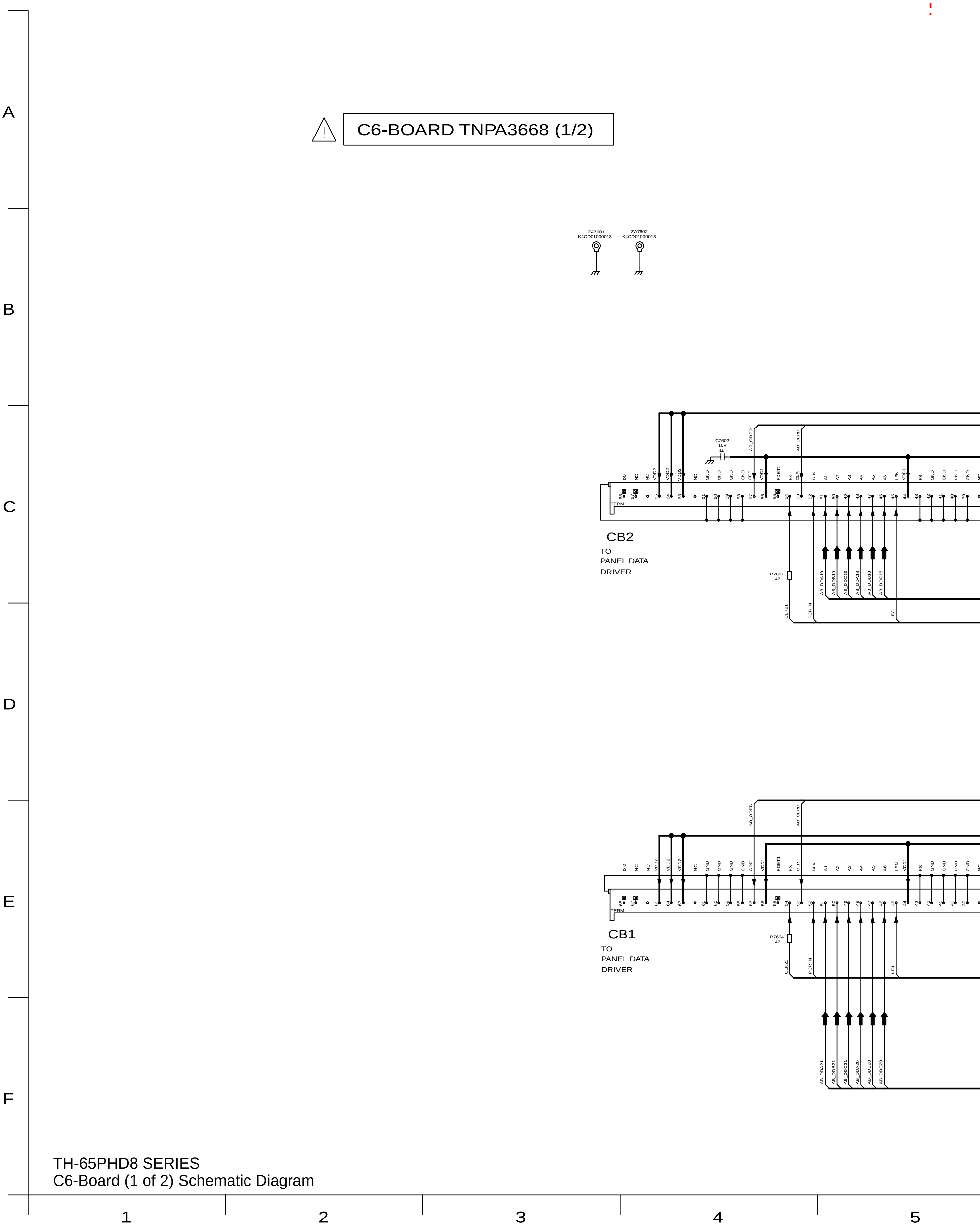

FL7502
J0HABH000013
C5_5V
TERM
BUFFER
IC7503
C0JBAZ001120
IC7504
C0JBAZ001120
R7566
EXB38V681JV
R7567
EXB38V681JV
R7568
EXB38V681JV
R7569
EXB38V681JV
C7512
16V
0.1u
C7514
16V
0.1u
C5_5_3V
R7586
EXB38V470JV
R7587
EXB38V470JV
R7588
EXB38V470JV
R7589
EXB38V470JV
R7603
680
R7604
10k
R7605
10k
D7503
B0HCMM000014
D7504
B0HCMM000014
C7527
100V
0.47u
VDA_75V
L7505
J0JJC0000011
L7506
J0JJC0000011
78V_L
R7542
0
R7555
2.2
R7557
2.2
C7503
16V
1u
C5_5V
CB6
TO
PANEL DATA
DRIVER
R7575
47
R7574
47
C7515
50V
100p
C7510
50V
100p
D7505
B0HCMM000014
D7506
B0HCMM000014
C7528
100V
0.47u
L7507
J0JJC0000011
L7508
J0JJC0000011
R7560
2.2
R7562
2.2
CB7
TO
PANEL DATA
DRIVER
R7558
47
R7563
47
C7508
50V
100p
5V
AA_LEL
AA_ODE_L
AA_CLR_L
AB_ODE_L
AB_CLR_L
CLKL1
CLKL2
PCL_N
LE6
LE7
1
2
3
4
5
10
11
12
13
14

TH-65PHD8 SERIES
C5-Board (2 of 2) Schematic Diagram

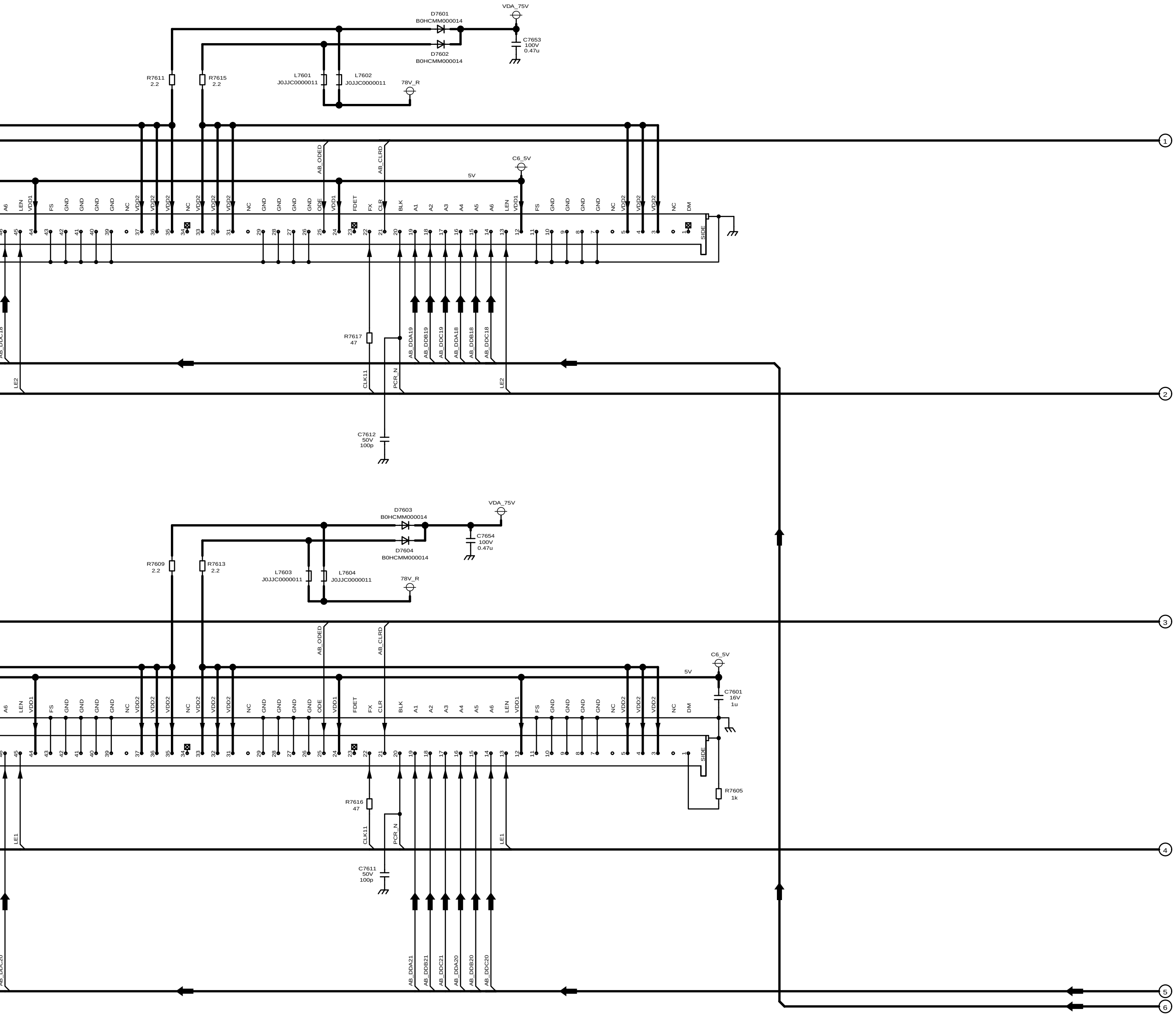

C5-BOARD TNPA3667 (2/2)
TO D-BOARD (D33)
C55
BUFFER
IC7513
C0JBAZ001120
IC7509
C0JBAZ001120
IC7510
C0JBAZ001120
IC7511
C0JBAZ001120
IC7512
C0JBAZ001120
R7616 EXB38V681JV
R7617 EXB38V681JV
R7618 EXB38V470JV
R7619 EXB38V470JV
R7517 EXB38V681JV
R7518 EXB38V681JV
R7519 EXB38V470JV
R7520 EXB38V470JV
R7613 10k
R7614 680
R7615 680
R7536 47
R7535 47
R7522 EXB38V681JV
R7524 EXB38V681JV
R7525 EXB38V470JV
R7526 EXB38V470JV
R7521 EXB38V681JV
R7523 EXB38V681JV
R7527 EXB38V470JV
R7528 EXB38V470JV
R7529 EXB38V681JV
R7530 EXB38V681JV
R7531 EXB38V470JV
R7532 EXB38V470JV
C7567 16V 0.1u
C7560 0.1u 16V
C7563 16V 0.1u
C7564 16V 0.1u
C7566 0.1u 16V
C7509 16V 1u
C5_5_3V
C5_5V
5V
UEH
USL
USH
UML
UMH
NUEL
UEH_BUF
USL_BUF
UML_BUF
UMH_BUF
NUEL_BUF
TO C4-BOARD (C41)
C51
GND
DRV_SOS9
DRV_SOS2
DMHR
DMLL
DMHL
DSLL
DSHL
DRV_RST
5V_DET
CLK[0](+)
CLK[1](-)
LED
PCD1
CLRD
ODED
DOUTDA[1]
DOUTDB[1]
DOUTDC[1]
DOUTDA[0]
DOUTDB[0]
DOUTDC[0]
DOUTDA[3]
DOUTDB[3]
DOUTDC[3]
DOUTDA[2]
DOUTDB[2]
DOUTDC[2]
DOUTDA[5]
DOUTDB[5]
DOUTDC[5]
DOUTDA[4]
DOUTDB[4]
DOUTDC[4]
DOUTDA[7]
DOUTDB[7]
DOUTDC[7]
DOUTDA[6]
DOUTDB[6]
DOUTDC[6]
P5V
TERM
SIDE
AA_CLKL
AA_NCLKL
AA_LEL
AA_PCL
AA_CLR_L
AA_ODE_L
AB_CLKL
AB_NCLKL
AB_LEL
AB_PCL
AB_CLR_L_BUF
AB_ODE_L_BUF
ZA7501 K4CD01000013
ZA7502 K4CD01000013
ZA7503 K4CD01000013
ZA7504 K4CD01000013
78V_L
78V_R
D7509 DF20LC20U B0HDSM000005
VDA_75V
Vda 75V
NC
R7540 0
R7538 0
C5_5_3V_B
C53
TO C4-BOARD (C43)

TH-65PHD8 SERIES
C5-Board (2 of 2) Schematic Diagram

15.46. C6-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
C6-BOARD TNPA3668 (1/2)
ZA7601
K4CD01000013
ZA7602
K4CD01000013
C7602
16V
1u
AB_ODED
AB_CLRD
DM
NC
NC
VDD2
VDD2
VDD2
NC
GND
GND
GND
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
VDD1
FS
GND
GND
GND
GND
TERM
CB2
TO
PANEL DATA
DRIVER
R7607
47
AB_DDA19
AB_DDB19
AB_DDC19
AB_DDA18
AB_DDB18
AB_DDC18
CLK21
PCR_N
LE2
CB1
TO
PANEL DATA
DRIVER
R7604
47
CLK21
PCR_N
LE1
AB_DDA21
AB_DDB21
AB_DDC21
AB_DDA20
AB_DDB20
AB_DDC20

TH-65PHD8 SERIES
C6-Board (1 of 2) Schematic Diagram

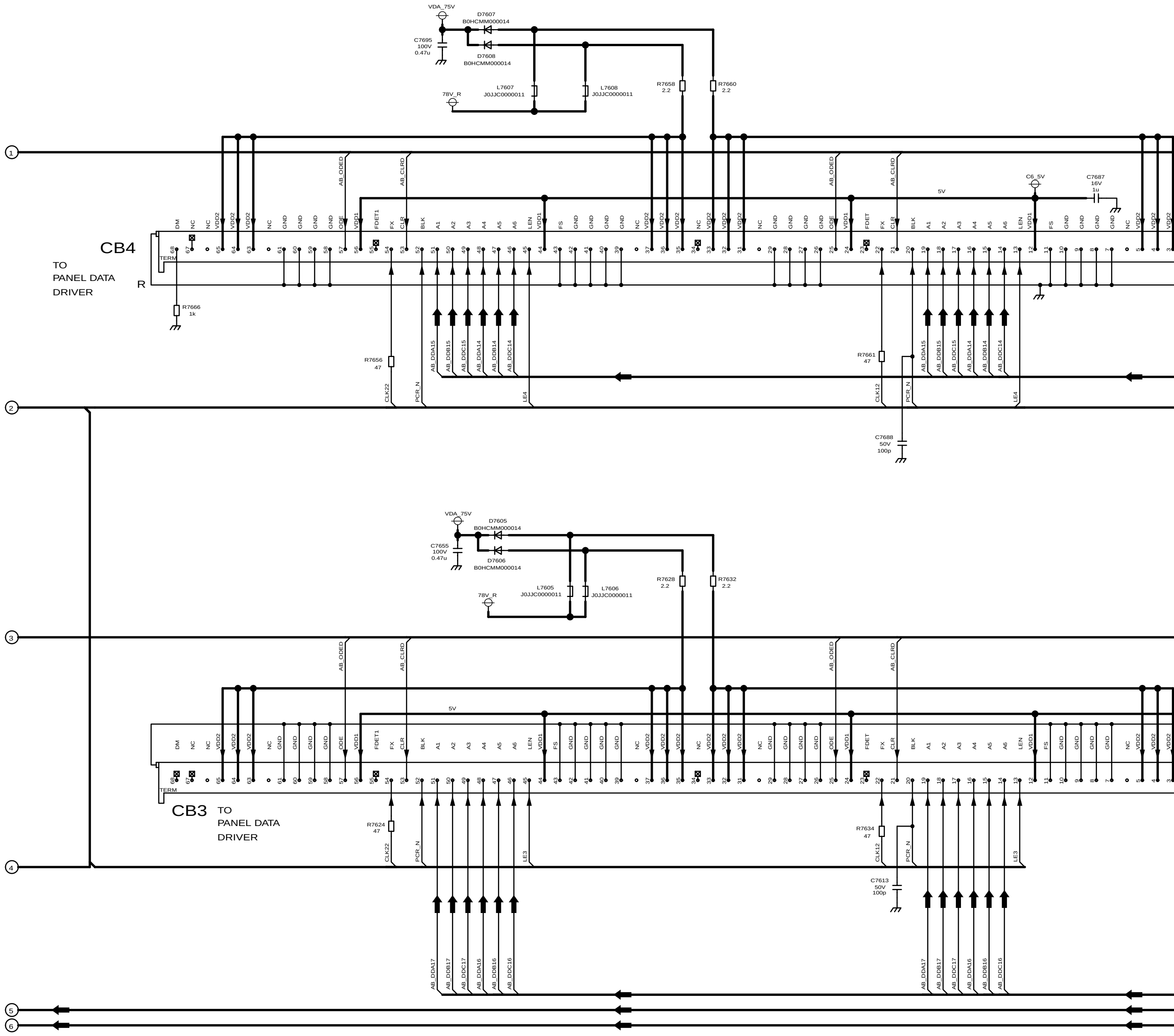

D7601
B0HCMM000014
VDA_75V
C7653
100V
0.47u
D7602
B0HCMM000014
R7611
2.2
R7615
2.2
L7601
J0JJC0000011
L7602
J0JJC0000011
78V_R
AB_ODED
AB_CLRD
C6_5V
5V
A6
LEN
VDD1
FS
GND
NC
VDD2
ODE
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
DM
SIDE
R7617
47
AB_DDA19
AB_DDB19
AB_DDC19
AB_DDA18
AB_DDB18
AB_DDC18
CLK11
PCR_N
LE2
C7612
50V
100p
D7603
B0HCMM000014
VDA_75V
C7654
100V
0.47u
D7604
B0HCMM000014
R7609
2.2
R7613
2.2
L7603
J0JJC0000011
L7604
J0JJC0000011
78V_R
C7601
16V
1u
R7605
1k
R7616
47
C7611
50V
100p
LE1
AB_DDA21
AB_DDB21
AB_DDC21
AB_DDA20
AB_DDB20
AB_DDC20
①
②
③
④
⑤
⑥

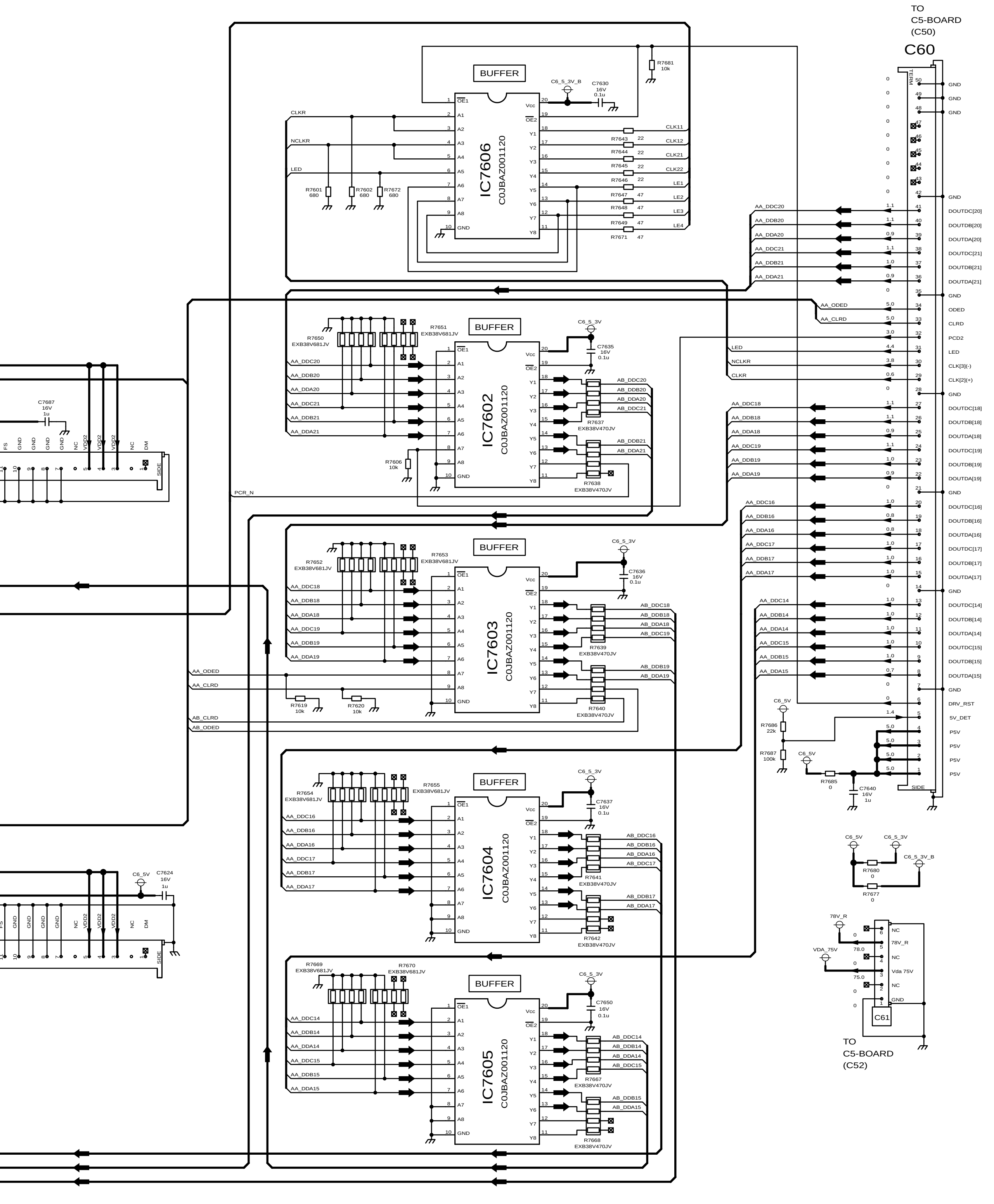
TH-65PHD8 SERIES
C6-Board (1 of 2) Schematic Diagram

5	6	7	8	9

15.47. C6-Board (2 of 2) Schematic Diagram

C6-BOARD TNPA3668 (2/2)

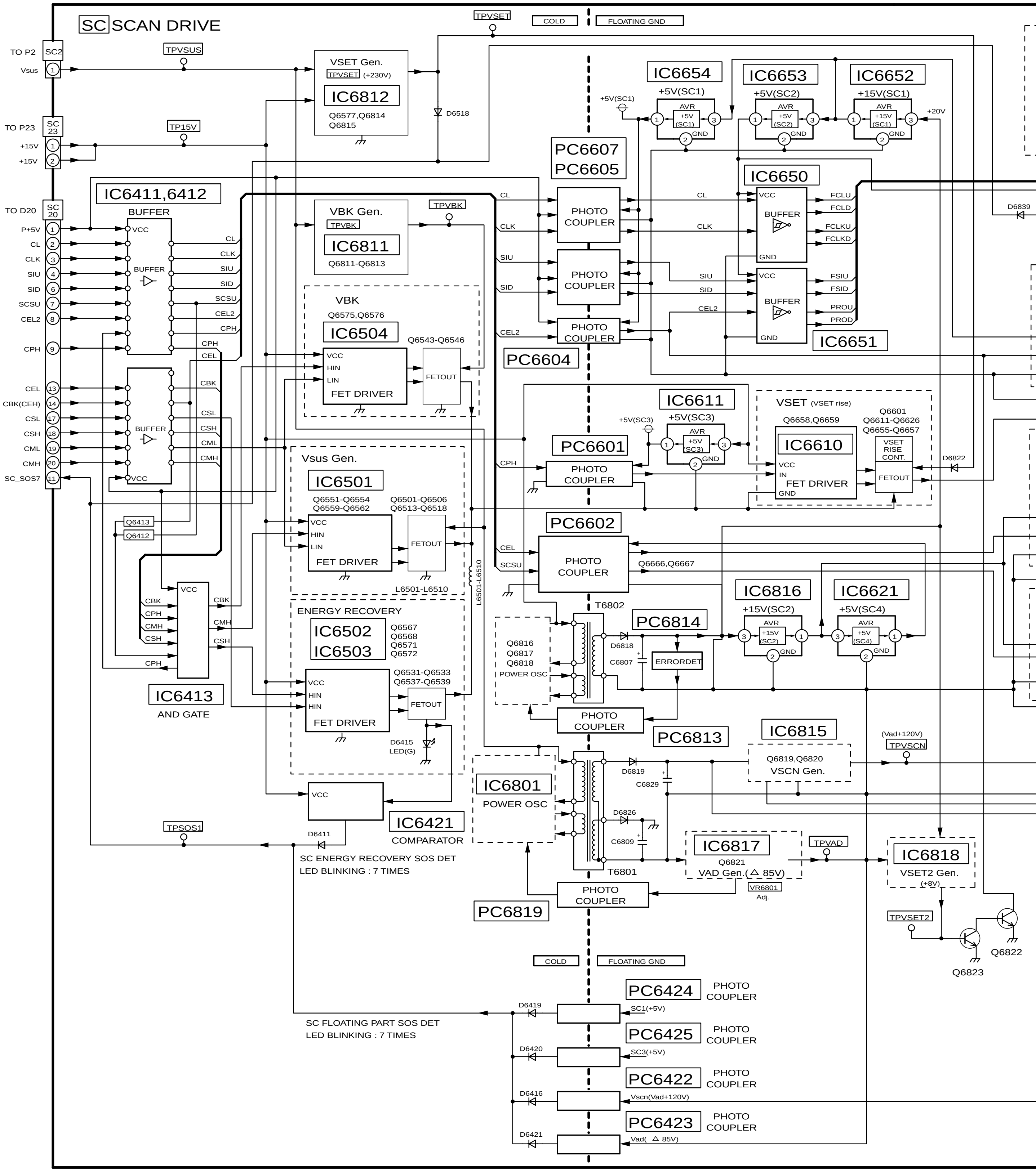

VDA_75V
D7607
B0HCMM000014
D7608
B0HCMM000014
C7695
100V
0.47u
L7607
J0JJC0000011
L7608
J0JJC0000011
78V_R
R7658
2.2
R7660
2.2
AB_ODED
AB_CLRD
5V
C6_5V
C7687
16V
1u
CB4
TO
PANEL DATA
DRIVER
R
TERM
R7666
1k
DM
NC
VDD2
GND
ODE
VDD1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
R7656
47
R7661
47
AB_DDA15
AB_DDB15
AB_DDC15
AB_DDA14
AB_DDB14
AB_DDC14
CLK22
PCR_N
LE4
CLK12
C7688
50V
100p
VDA_75V
D7605
B0HCMM000014
D7606
B0HCMM000014
C7655
100V
0.47u
L7605
J0JJC0000011
L7606
J0JJC0000011
78V_R
R7628
2.2
R7632
2.2
CB3
TO
PANEL DATA
DRIVER
R7624
47
R7634
47
LE3
C7613
50V
100p
AB_DDA17
AB_DDB17
AB_DDC17
AB_DDA16
AB_DDB16
AB_DDC16
1
2
3
4
5
6


TO
C5-BOARD
(C50)
C60
BUFFER
IC7606
C0JBAZ001120
IC7602
C0JBAZ001120
IC7603
C0JBAZ001120
IC7604
C0JBAZ001120
IC7605
C0JBAZ001120
R7681 10k
C6_5_3V_B
C7630 16V 0.1u
CLKR
NCLKR
LED
R7601 680
R7602 680
R7672 680
R7643 22
R7644 22
R7645 22
R7646 22
R7647 47
R7648 47
R7649 47
R7671 47
CLK11
CLK12
CLK21
CLK22
LE1
LE2
LE3
LE4
C6_5_3V
R7650 EXB38V681JV
R7651 EXB38V681JV
C7635 16V 0.1u
R7637 EXB38V470JV
R7638 EXB38V470JV
R7606 10k
R7652 EXB38V681JV
R7653 EXB38V681JV
C7636 16V 0.1u
R7639 EXB38V470JV
R7640 EXB38V470JV
R7619 10k
R7620 10k
R7654 EXB38V681JV
R7655 EXB38V681JV
C7637 16V 0.1u
R7641 EXB38V470JV
R7642 EXB38V470JV
R7669 EXB38V681JV
R7670 EXB38V681JV
C7650 16V 0.1u
R7667 EXB38V470JV
R7668 EXB38V470JV
C7687 16V 1u
C7624 16V 1u
C6_5V
PCR_N
AA_ODED
AA_CLRD
AB_CLRD
AB_ODED
GND
DOUTDC[20]
DOUTDB[20]
DOUTDA[20]
DOUTDC[21]
DOUTDB[21]
DOUTDA[21]
ODED
CLRD
PCD2
LED
CLK[3](-)
CLK[2](+)
DOUTDC[18]
DOUTDB[18]
DOUTDA[18]
DOUTDC[19]
DOUTDB[19]
DOUTDA[19]
DOUTDC[16]
DOUTDB[16]
DOUTDA[16]
DOUTDC[17]
DOUTDB[17]
DOUTDA[17]
DOUTDC[14]
DOUTDB[14]
DOUTDA[14]
DOUTDC[15]
DOUTDB[15]
DOUTDA[15]
DRV_RST
5V_DET
P5V
SIDE
R7686 22k
R7687 100k
R7685 0
C7640 16V 1u
R7680 0
R7677 0
78V_R
VDA_75V
NC
Vda 75V
C61
TO
C5-BOARD
(C52)

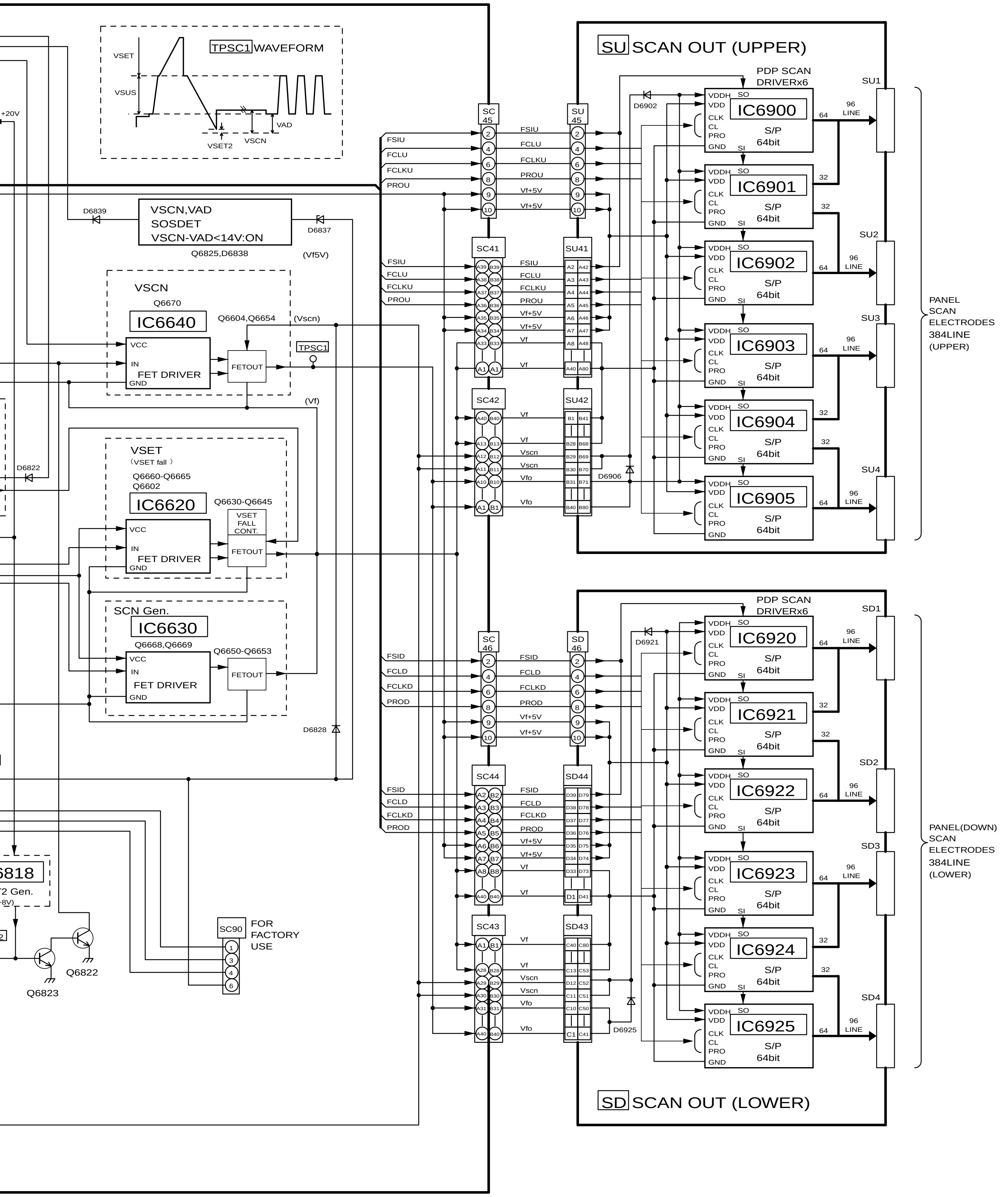
TH-65PHD8 SERIES
C6-Board (2 of 2) Schematic Diagram

14	15	16	17	18

15.48. SC, SU and SD-Board Block Diagram

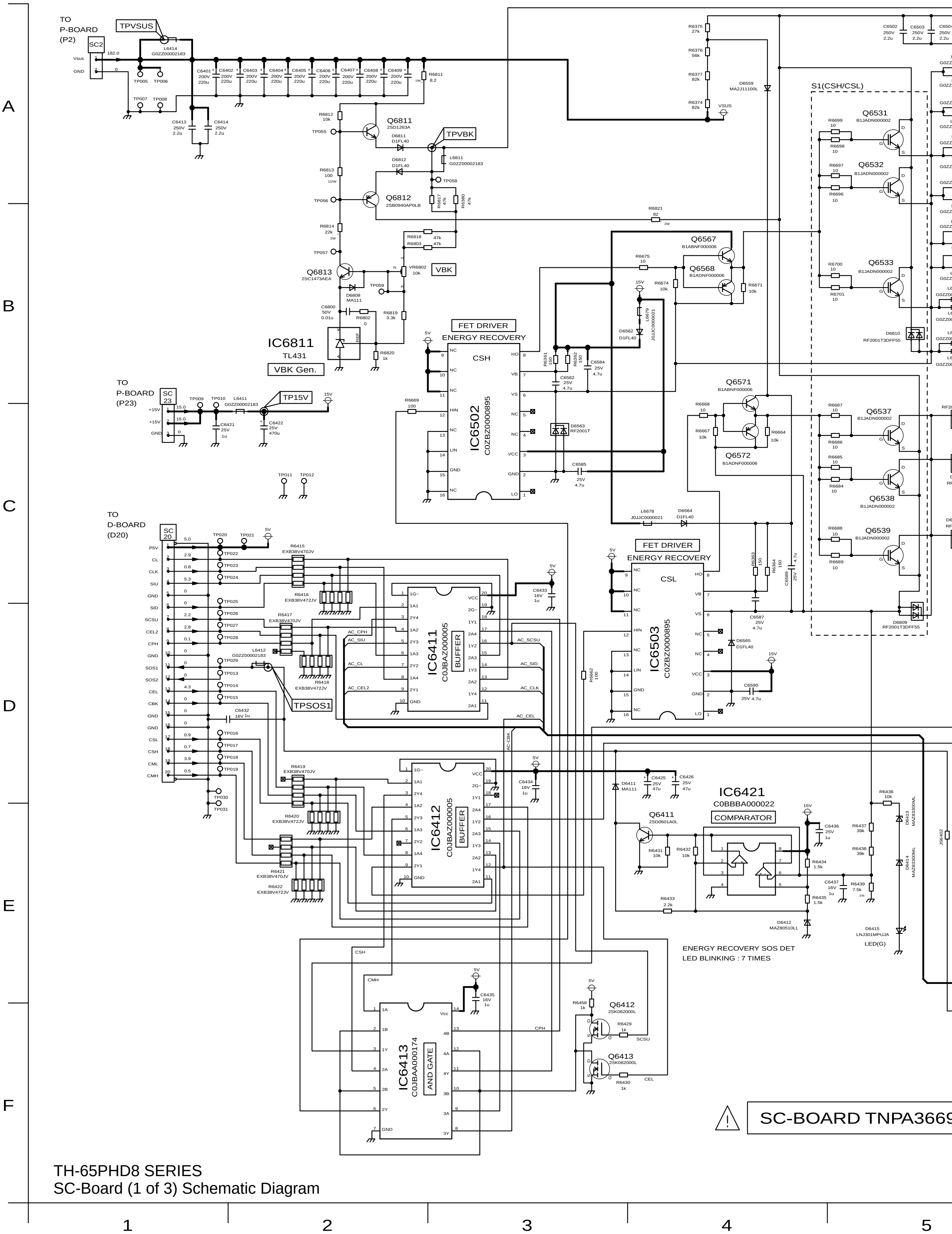

SC SCAN DRIVE
TO P2
SC2
Vsus
TO P23
SC23
+15V
TO D20
SC20
P+5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CBK(CEH)
CSL
CSH
CML
CMH
SC_SOS7
TPVSUS
TP15V
TPVSET
COLD
FLOATING GND
IC6411,6412
BUFFER
VCC
VSET Gen.
TPVSET (+230V)
IC6812
Q6577,Q6814
Q6815
D6518
VBK Gen.
TPVBK
IC6811
Q6811-Q6813
VBK
Q6575,Q6576
IC6504
Q6543-Q6546
HIN
LIN
FET DRIVER
FETOUT
Vsus Gen.
IC6501
Q6551-Q6554
Q6559-Q6562
Q6501-Q6506
Q6513-Q6518
L6501-L6510
ENERGY RECOVERY
IC6502
IC6503
Q6567
Q6568
Q6571
Q6572
Q6531-Q6533
Q6537-Q6539
D6415
LED(G)
Q6413
Q6412
IC6413
AND GATE
CBK
CPH
CMH
CSH
IC6421
COMPARATOR
D6411
TPSOS1
SC ENERGY RECOVERY SOS DET
LED BLINKING : 7 TIMES
PC6607
PC6605
PHOTO COUPLER
PC6604
IC6654
+5V(SC1)
IC6653
+5V(SC2)
IC6652
+15V(SC1)
AVR
GND
+20V
IC6650
FCLU
FCLD
FCLKU
FCLKD
FSIU
FSID
PROU
PROD
IC6651
D6839
IC6611
+5V(SC3)
PC6601
VSET (VSET rise)
Q6658,Q6659
Q6601
Q6611-Q6626
Q6655-Q6657
IC6610
VSET RISE CONT.
IN
D6822
PC6602
Q6666,Q6667
T6802
Q6816
Q6817
Q6818
POWER OSC
PC6814
D6818
C6807
ERRORDET
IC6816
+15V(SC2)
IC6621
+5V(SC4)
PC6813
IC6815
Q6819,Q6820
VSCN Gen.
(Vad+120V)
TPVSCN
IC6801
D6819
C6829
D6826
C6809
T6801
IC6817
Q6821
VAD Gen.(△ 85V)
VR6801
Adj.
TPVAD
IC6818
VSET2 Gen.
(+8V)
TPVSET2
Q6822
Q6823
PC6819
PC6424
SC1(+5V)
PC6425
SC3(+5V)
PC6422
Vscn(Vad+120V)
PC6423
Vad(△ 85V)
D6419
D6420
D6416
D6421
SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES

TH-65PHD8 SERIES
SC, SU and SD-Board Block Diagram

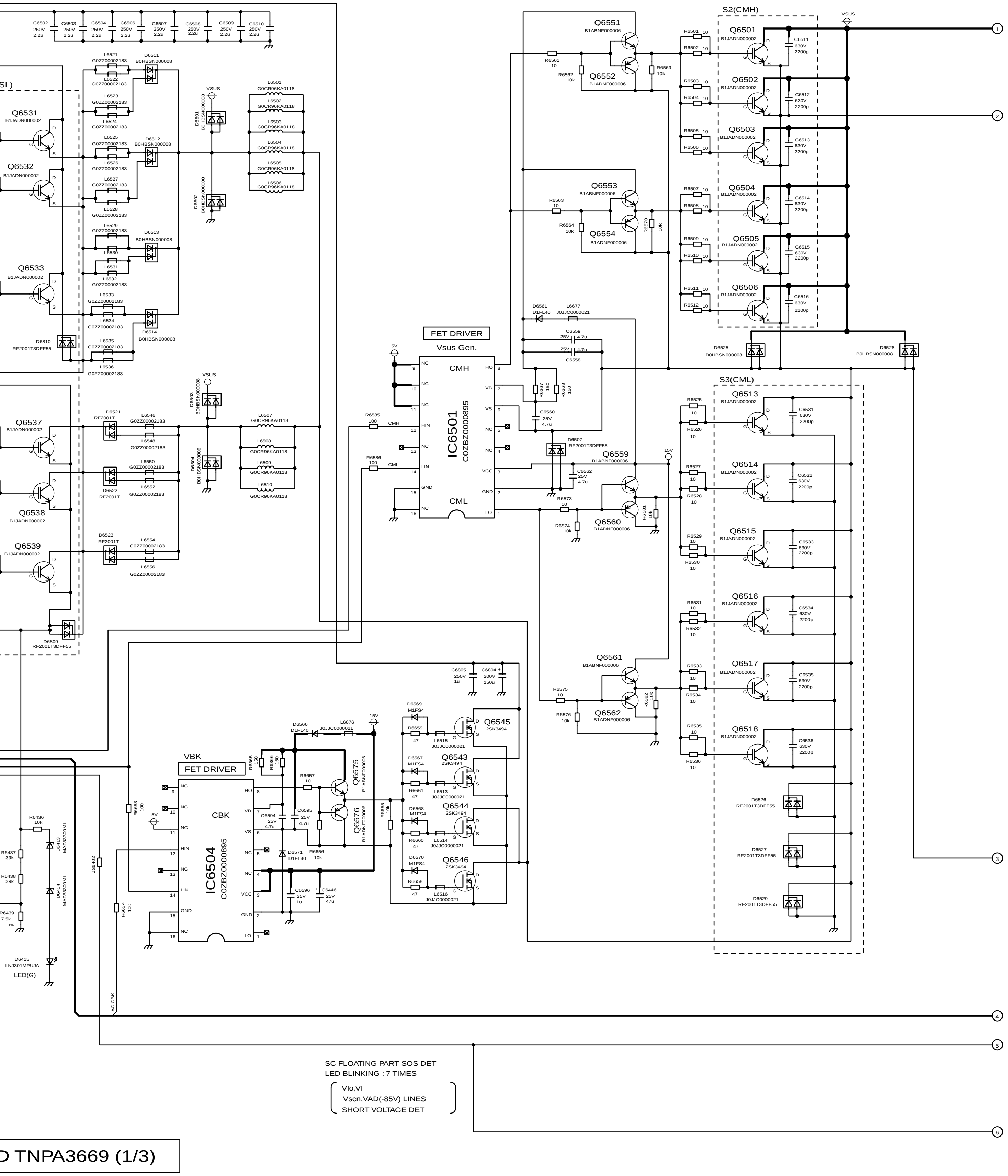

TPSC1 WAVEFORM
VSET
VSUS
VAD
VSET2
VSCN
+20V
VSCN,VAD
SOSDET
VSCN-VAD<14V:ON
Q6825,D6838
D6839
D6837
(Vf5V)
VSCN
Q6670
IC6640
Q6604,Q6654
(Vscn)
TPSC1
VCC
IN
FET DRIVER
GND
FETOUT
(Vf)
VSET
(VSET fall)
Q6660-Q6665
Q6602
IC6620
Q6630-Q6645
VSET FALL CONT.
D6822
SCN Gen.
IC6630
Q6668,Q6669
Q6650-Q6653
D6828
818
2 Gen.
8V)
Q6822
Q6823
SC90
FOR FACTORY USE
SC 45
SU 45
SC41
SU41
SC42
SU42
SC 46
SD 46
SC44
SD44
SC43
SD43
FSIU
FCLU
FCLKU
PROU
Vf+5V
Vf
Vscn
Vfo
FSID
FCLD
FCLKD
PROD
D6902
D6906
D6921
D6925
SU SCAN OUT (UPPER)
PDP SCAN DRIVERx6
IC6900
IC6901
IC6902
IC6903
IC6904
IC6905
VDDH
VDD
CLK
CL
PRO
GND
SO
SI
S/P 64bit
64
32
96 LINE
SU1
SU2
SU3
SU4
PANEL SCAN ELECTRODES 384LINE (UPPER)
SD SCAN OUT (LOWER)
IC6920
IC6921
IC6922
IC6923
IC6924
IC6925
SD1
SD2
SD3
SD4
PANEL(DOWN) SCAN ELECTRODES 384LINE (LOWER)

TH-65PHD8 SERIES
SC, SU and SD-Board Block Diagram

15.49. SC-Board (1 of 3) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
TO P-BOARD (P2)
SC2
TPVSUS
Vsus
GND
182.0
L6414 G0ZZ00002183
TP005
TP006
TP007
TP008
C6401 200V 220u
C6402 200V 220u
C6403 200V 220u
C6404 200V 220u
C6405 200V 220u
C6406 200V 220u
C6407 200V 220u
C6408 200V 220u
C6409 200V 220u
R6811 8.2
C6413 250V 2.2u
C6414 250V 2.2u
R6812 10k
Q6811 2SD1263A
TP055
D6811 D1FL40
TPVBK
L6811 G0ZZ00002183
D6812 D1FL40
TP058
R6813 100
Q6812 2SB0940AP0LB
TP056
R6817 47k
R6380 47k
R6814 22k
R6818 47k
R6803 47k
TP057
Q6813 2SC1473AEA
VR6802 10k
VBK
D6808 MA111
TP059
C6800 50V 0.01u
R6802 0
R6819 3.3k
IC6811
TL431
VBK Gen.
R6820 1k
REF
R6375 27k
R6376 56k
R6377 82k
R6374 82k
VSUS
D6559 MA2J11100L
R6821 82
Q6567 B1ABNF000006
Q6568 B1ADNF000006
R6675 10
R6674 10k
R6671 10k
15V
L6679 J0JJC0000021
D6562 D1FL40
FET DRIVER
ENERGY RECOVERY
5V
CSH
IC6502
C0ZBZ0000895
NC
HO
VB
VS
HIN
LIN
GND
VCC
LO
R6669 100
R6361 150
R6362 150
C6584 25V 4.7u
C6582 25V 4.7u
D6563 RF2001T
C6585 25V 4.7u
TO P-BOARD (P23)
SC 23
+15V
+15V
GND
15.0
15.0
TP009
TP010
L6411 G0ZZ00002183
TP15V
C6421 25V 1u
C6422 25V 470u
TP011
TP012
C6502 250V 2.2u
C6503 250V 2.2u
S1(CSH/CSL)
Q6531 B1JADN000002
R6699 10
R6698 10
Q6532 B1JADN000002
R6697 10
R6696 10
Q6533 B1JADN000002
R6700 10
R6701 10
D6810 RF2001T3DFF55
Q6571 B1ABNF000006
R6668 10
R6667 10k
R6664 10k
Q6572 B1ADNF000006
Q6537 B1JADN000002
R6687 10
R6686 10
R6685 10
R6684 10
Q6538 B1JADN000002
Q6539 B1JADN000002
R6688 10
R6689 10
D6809 RF2001T3DFF55
L6678 J0JJC0000021
D6564 D1FL40
CSL
IC6503
C0ZBZ0000895
R6363 150
R6364 150
C6589 25V 4.7u
C6587 25V 4.7u
D6565 D1FL40
R6662 100
C6590 25V 4.7u
TO D-BOARD (D20)
SC 20
P5V
CL
CLK
SIU
GND
SID
SCSU
CEL2
CPH
GND
SOS1
SOS2
CEL
CBK
GND
GND
CSL
CSH
CML
CMH
TP020
TP021
TP022
TP023
TP024
TP025
TP026
TP027
TP028
TP029
TP013
TP014
TP015
TP016
TP017
TP018
TP019
TP030
TP031
R6415 EXB38V470JV
R6416 EXB38V472JV
R6417 EXB38V470JV
R6418 EXB38V472JV
L6412 G0ZZ00002183
TPSOS1
C6432 16V 1u
IC6411
C0JBAZ000005
BUFFER
C6433 16V 1u
AC_CPH
AC_SIU
AC_CL
AC_CEL2
AC_SCSU
AC_SID
AC_CLK
AC_CEL
AC-CBK
R6419 EXB38V470JV
R6420 EXB38V472JV
R6421 EXB38V470JV
R6422 EXB38V472JV
IC6412
C0JBAZ000005
BUFFER
C6434 16V 1u
D6411 MA111
C6425 25V 47u
C6426 25V 47u
IC6421
C0BBBA000022
COMPARATOR
Q6411 2SD0601A0L
R6431 10k
R6432 10k
R6433 2.2k
C6436 25V 1u
R6434 1.5k
C6437 16V 1u
R6435 1.5k
R6439 7.5k
R6436 10k
R6437 39k
R6438 39k
D6412 MAZ80510LL
D6413 MAZ83300ML
D6414 MAZ83300ML
D6415 LNJ301MPUJA
LED(G)
ENERGY RECOVERY SOS DET
LED BLINKING : 7 TIMES
CSH
CMH
C6435 16V 1u
IC6413
C0JBAA000174
AND GATE
CPH
R6458 1k
Q6412 2SK0620000L
R6429 1k
SCSU
Q6413 2SK0620000L
R6430 1k
CEL
SC-BOARD TNPA3669

TH-65PHD8 SERIES
SC-Board (1 of 3) Schematic Diagram


S2(CMH)
S3(CML)
VSUS
Q6531 B1JADN000002
Q6532 B1JADN000002
Q6533 B1JADN000002
Q6537 B1JADN000002
Q6538 B1JADN000002
Q6539 B1JADN000002
Q6551 B1ABNF000006
Q6552 B1ADNF000006
Q6553 B1ABNF000006
Q6554 B1ADNF000006
Q6559 B1ABNF000006
Q6560 B1ADNF000006
Q6561 B1ABNF000006
Q6562 B1ADNF000006
Q6501 B1JADN000002
Q6502 B1JADN000002
Q6503 B1JADN000002
Q6504 B1JADN000002
Q6505 B1JADN000002
Q6506 B1JADN000002
Q6513 B1JADN000002
Q6514 B1JADN000002
Q6515 B1JADN000002
Q6516 B1JADN000002
Q6517 B1JADN000002
Q6518 B1JADN000002
Q6543 2SK3494
Q6544 2SK3494
Q6545 2SK3494
Q6546 2SK3494
Q6575 B1ABNF000006
Q6576 B1ADNF000006
FET DRIVER
Vsus Gen.
CMH
CML
IC6501
C0ZBZ0000895
VBK
FET DRIVER
CBK
IC6504
C0ZBZ0000895
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
D6501 B0HBSN000008
D6502 B0HBSN000008
D6503 B0HBSN000008
D6504 B0HBSN000008
D6511 B0HBSN000008
D6512 B0HBSN000008
D6513 B0HBSN000008
D6514 B0HBSN000008
D6521 RF2001T
D6522 RF2001T
D6523 RF2001T
D6525 B0HBSN000008
D6528 B0HBSN000008
D6526 RF2001T3DFF55
D6527 RF2001T3DFF55
D6529 RF2001T3DFF55
D6507 RF2001T3DFF55
D6809 RF2001T3DFF55
D6810 RF2001T3DFF55
D6561 D1FL40
D6566 D1FL40
D6571 D1FL40
D6567 M1FS4
D6568 M1FS4
D6569 M1FS4
D6570 M1FS4
D6413 MAZ8330ML
D6414 MAZ8330ML
D6415 LNJ301MPUJA
LED(G)
L6501 G0CR96KA0118
L6502 G0CR96KA0118
L6503 G0CR96KA0118
L6504 G0CR96KA0118
L6505 G0CR96KA0118
L6506 G0CR96KA0118
L6507 G0CR96KA0118
L6508 G0CR96KA0118
L6509 G0CR96KA0118
L6510 G0CR96KA0118
L6521 G0ZZ00002183
L6536 G0ZZ00002183
L6546 G0ZZ00002183
L6556 G0ZZ00002183
L6513 J0JJC0000021
L6514 J0JJC0000021
L6515 J0JJC0000021
L6516 J0JJC0000021
L6676 J0JJC0000021
L6677 J0JJC0000021
C6502 250V 2.2u
C6510 250V 2.2u
C6511 630V 2200p
C6536 630V 2200p
C6804 200V 150u
C6805 250V 1u
5V
15V
JS6402
AC-CBK
①
②
③
④
⑤
⑥

SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES

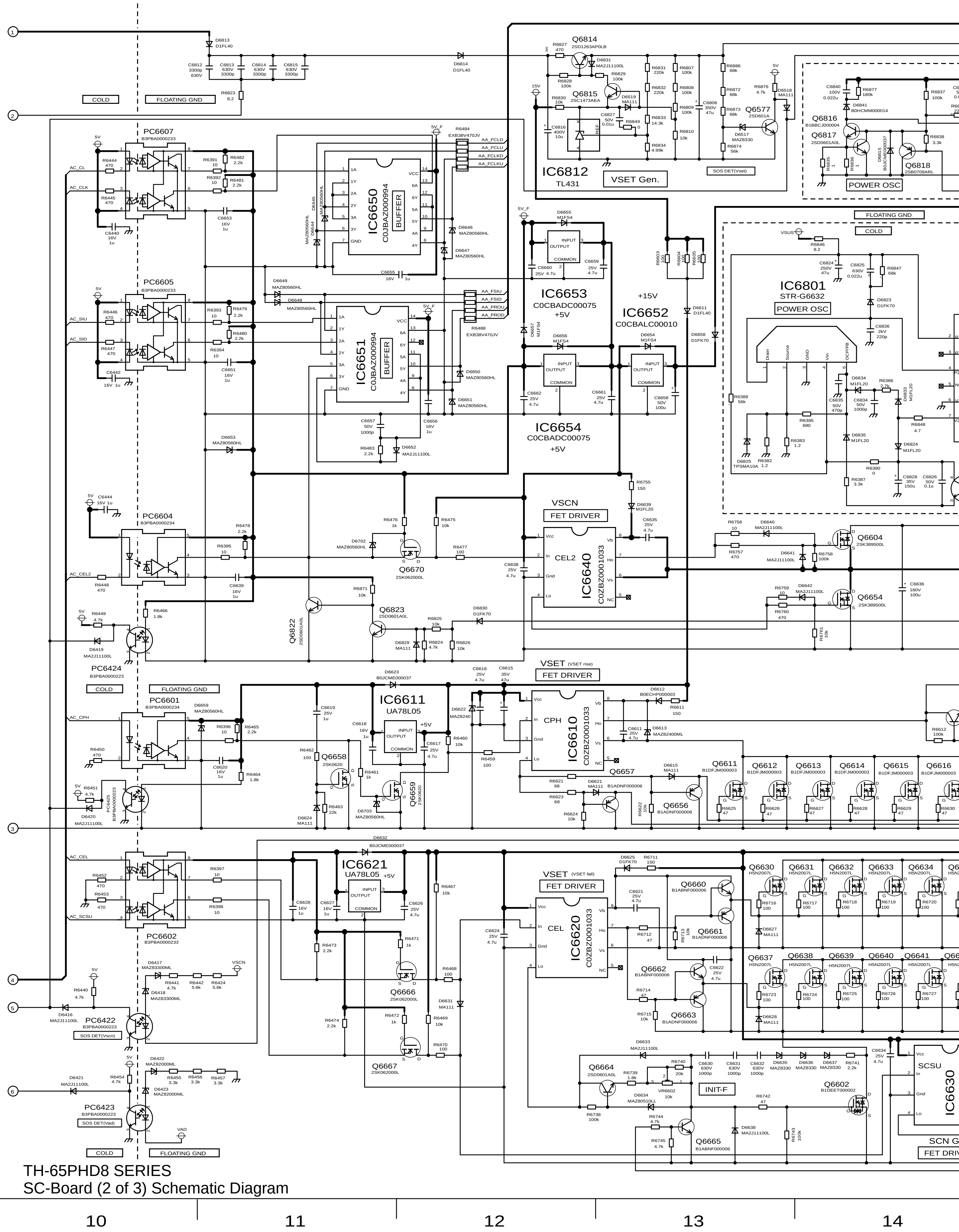
Vfo,Vf
Vscn,VAD(-85V) LINES
SHORT VOLTAGE DET

D TNPA3669 (1/3)

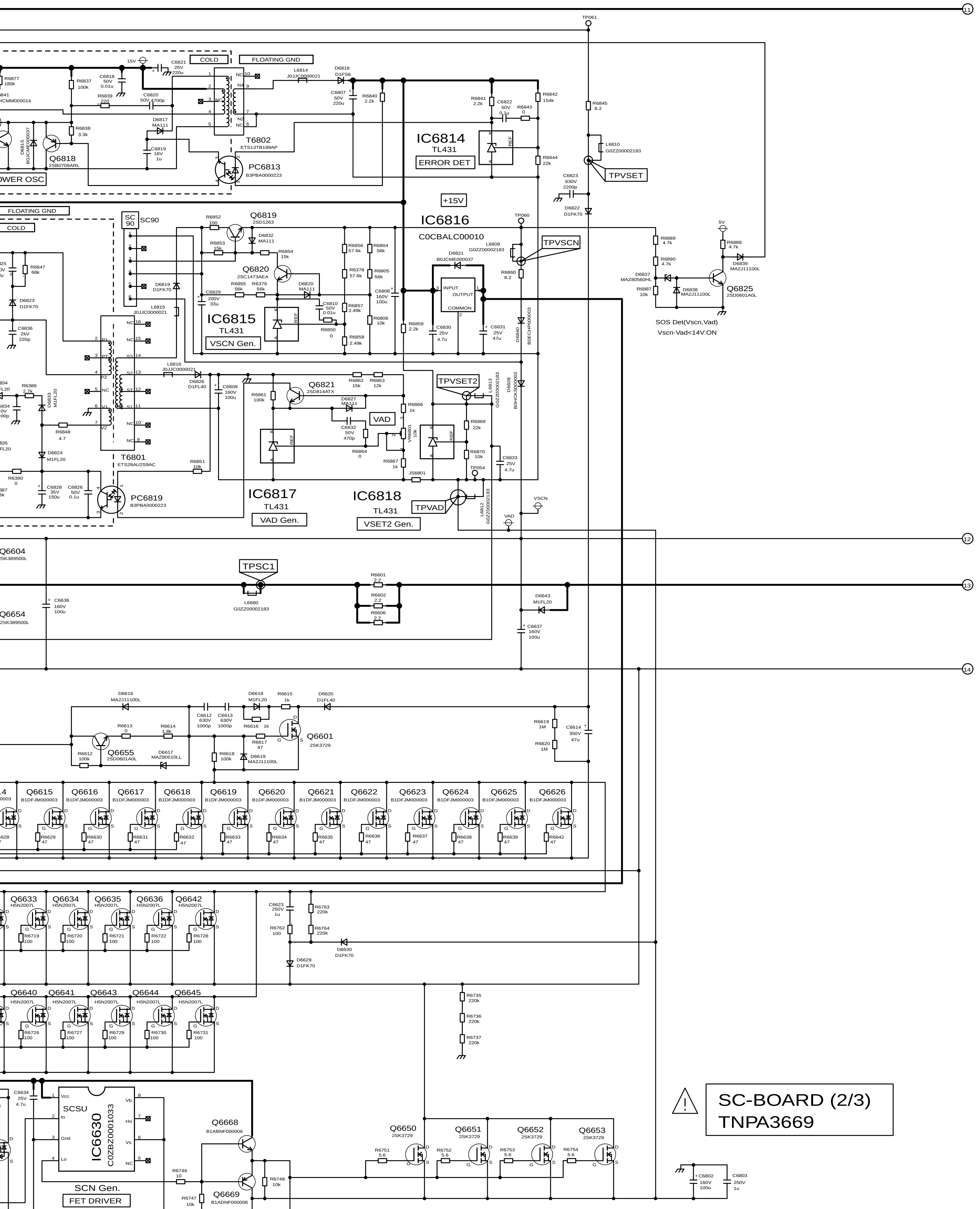
TH-65PHD8 SERIES
SC-Board (1 of 3) Schematic Diagram

5 6 7 8 9

15.50. SC-Board (2 of 3) Schematic Diagram


1
2
3
4
5
6
COLD
FLOATING GND
D6813 D1FL40
C6812 3300p 630V
C6813 630V 3300p
C6814 630V 3300p
C6815 630V 3300p
R6823 8.2
D6814 D1FL40
PC6607 B3PBA0000233
PC6605 B3PBA0000233
PC6604 B3PBA0000234
PC6601 B3PBA0000234
PC6602 B3PBA0000233
PC6424 B3PBA0000223
PC6425 B3PBA0000223
PC6422 B3PBA0000223
PC6423 B3PBA0000223
SOS DET(Vscn)
SOS DET(Vad)
AC_CL
AC_CLK
AC_SIU
AC_SID
AC_CEL2
AC_CPH
AC_CEL
AC_SCSU
AA_FCLD
AA_FCLU
AA_FCLKD
AA_FCLKU
AA_FSIU
AA_FSID
AA_PROU
AA_PROD
R6484 EXB38V470JV
R6488 EXB38V470JV
IC6650 C0JBAZ000994 BUFFER
IC6651 C0JBAZ000994 BUFFER
1A 1Y 2A 2Y 3A 3Y GND VCC 6A 6Y 5A 5Y 4A 4Y
D6645 MAZ80560HL
D6644 MAZ80560HL
D6646 MAZ80560HL
D6647 MAZ80560HL
D6648 MAZ80560HL
D6649 MAZ80560HL
D6650 MAZ80560HL
D6651 MAZ80560HL
D6652 MA2J11100L
D6653 MAZ80560HL
C6655 16V 1u
C6656 16V 1u
C6657 50V 1000p
R6483 2.2k
Q6814 2SD1263AP0LB
Q6815 2SC1473AEA
Q6577 2SD601A
IC6812 TL431
VSET Gen.
SOS DET(Vset)
Q6816 B1BBCJ000004
Q6817 2SD0601A0L
Q6818 2SB0709ARL
POWER OSC
IC6653 C0CBADC00075 +5V
IC6652 C0CBALC00010 +15V
IC6654 C0CBADC00075 +5V
INPUT OUTPUT COMMON
D6655 M1FS4
D6656 M1FS4
D6654 M1FS4
D6657 M1FS4
D6611 D1FL40
D6658 D1FK70
VSUS
IC6801 STR-G6632 POWER OSC
Drain Source GND Vin OCP/FB
R6846 8.2
C6824 250V 47u
C6825 630V 0.022u
R6847 68k
D6823 D1FK70
C6836 2kV 220p
D6834 M1FL20
D6835 M1FL20
D6824 M1FL20
D6825 TPSMA10A
VSCN FET DRIVER
IC6640 C0ZBZ0001033 CEL2
Vcc In Gnd Lo Vb Ho Vs NC
Q6670 2SK0620001L
Q6604 2SK389500L
Q6654 2SK389500L
Q6822 2SD0601A0L
Q6823 2SD0601A0L
D6830 D1FK70
D6639 M1FL20
D6640 MA2J11100L
D6641 MA2J11100L
D6642 MA2J11100L
C6636 160V 100u
VSET (VSET rise) FET DRIVER
IC6611 UA78L05 +5V
IC6610 C0ZBZ0001033 CPH
D6623 B0JCME000037
D6612 B0ECHP000003
D6613 MAZ82400ML
D6622 MAZ8240
Q6658 2SK0620
Q6659 2SK0620
Q6657
Q6656 B1ADNF000006
Q6611 B1DFJM000003
Q6612 B1DFJM000003
Q6613 B1DFJM000003
Q6614 B1DFJM000003
Q6615 B1DFJM000003
Q6616 B1DFJM000003
D6632 B0JCME000037
IC6621 UA78L05 +5V
VSET (VSET fall) FET DRIVER
IC6620 C0ZBZ0001033 CEL
Q6660 B1ABNF000006
Q6661 B1ADNF000006
Q6662 B1ABNF000006
Q6663 B1ADNF000006
Q6666 2SK062000L
Q6667 2SK062000L
Q6630 H5N2007L
Q6631 H5N2007L
Q6632 H5N2007L
Q6633 H5N2007L
Q6634 H5N2007L
Q6637 H5N2007L
Q6638 H5N2007L
Q6639 H5N2007L
Q6640 H5N2007L
Q6641 H5N2007L
D6627 MA111
D6628 MA111
D6625 D1FK70
D6633 MA2J11100L
D6634 MAZ8051OLL
D6635 MAZ8330
D6636 MAZ8330
D6637 MAZ8330
D6638 MA2J11100L
INIT-F
VR6602 10k
Q6664 2SD0601A0L
Q6665 B1ABNF000006
Q6602 B1DEET000002
SCSU
SCN G
FET DRIV
IC663
D6416 MA2J11100L
D6417 MAZ83300ML
D6418 MAZ83300ML
D6419 MA2J11100L
D6420 MA2J11100L
D6421 MA2J11100L
D6422 MAZ82000ML
D6423 MAZ82000ML
VSCN
VAD
5V
15V

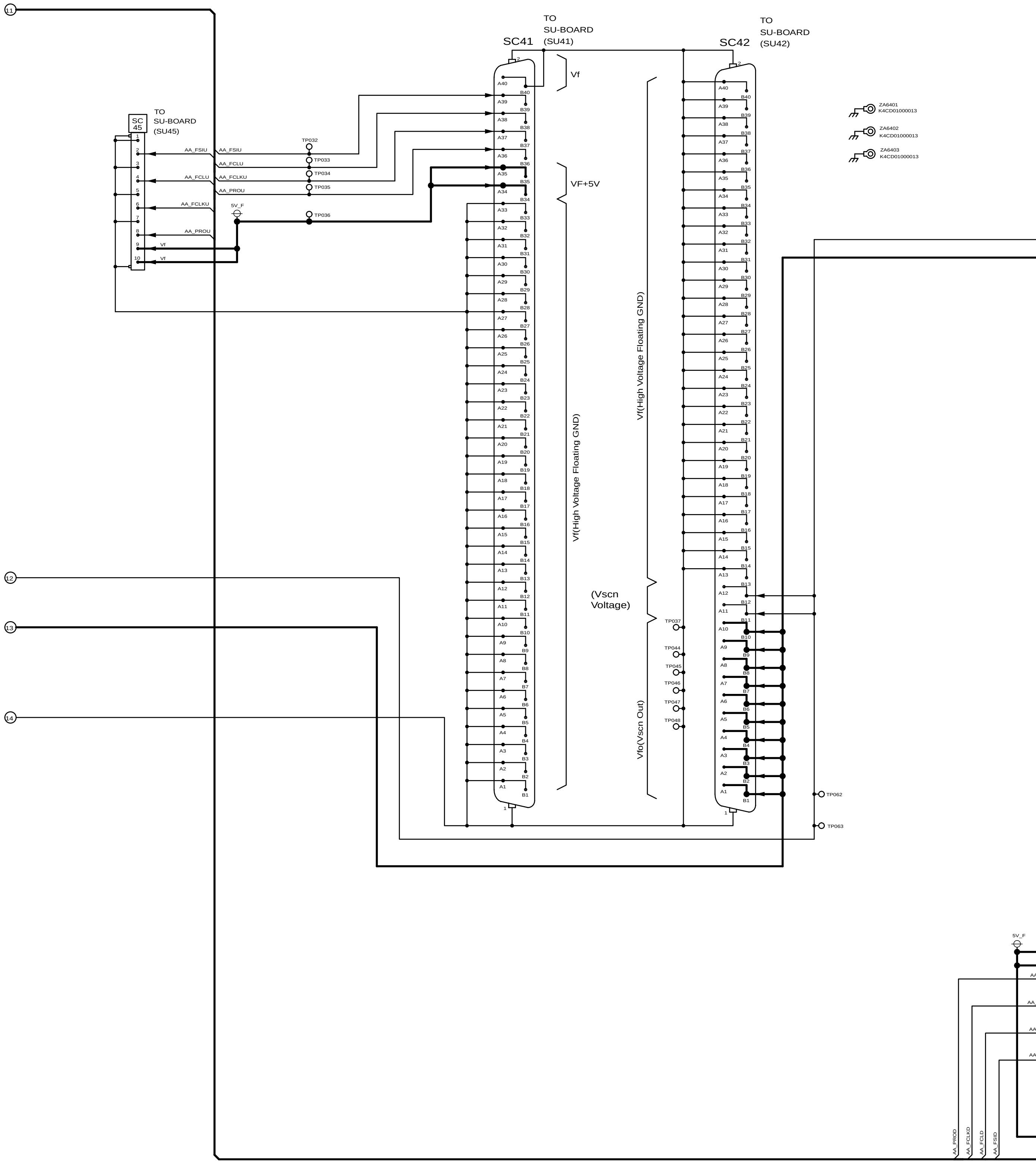
TH-65PHD8 SERIES
SC-Board (2 of 3) Schematic Diagram


COLD
FLOATING GND
15V
POWER OSC
T6802
ETS13TB199AP
PC6813
B3PBA0000223
Q6818
2SB0709ARL
IC6814
TL431
ERROR DET
TPVSET
+15V
IC6816
C0CBALC00010
INPUT
OUTPUT
COMMON
TPVSCN
Q6825
2SD0601A0L
SOS Det(Vscn,Vad)
Vscn-Vad<14V:ON
SC90
Q6819
2SD1263
Q6820
2SC1473AEA
IC6815
TL431
VSCN Gen.
T6801
ETS28AU2S9AC
PC6819
B3PBA0000223
Q6821
2SD814ATX
VAD
IC6817
TL431
VAD Gen.
IC6818
TL431
VSET2 Gen.
TPVSET2
TPVAD
VSCN
VAD
TP061
TP060
TP054
5V
Q6604
2SK3895O0L
Q6654
2SK3895O0L
TPSC1
L6680
G0ZZ00002183
Q6601
2SK3729
Q6655
2SD0601A0L
Q6615
Q6616
Q6617
Q6618
Q6619
Q6620
Q6621
Q6622
Q6623
Q6624
Q6625
Q6626
B1DFJM000003
Q6633
Q6634
Q6635
Q6636
Q6642
Q6640
Q6641
Q6643
Q6644
Q6645
H5N2007L
IC6630
C0ZBZ0001033
SCSU
SCN Gen.
FET DRIVER
Q6668
B1ABNF000006
Q6669
B1ADNF000006
Q6650
Q6651
Q6652
Q6653
2SK3729
11
12
13
14
14
15
16
17
18

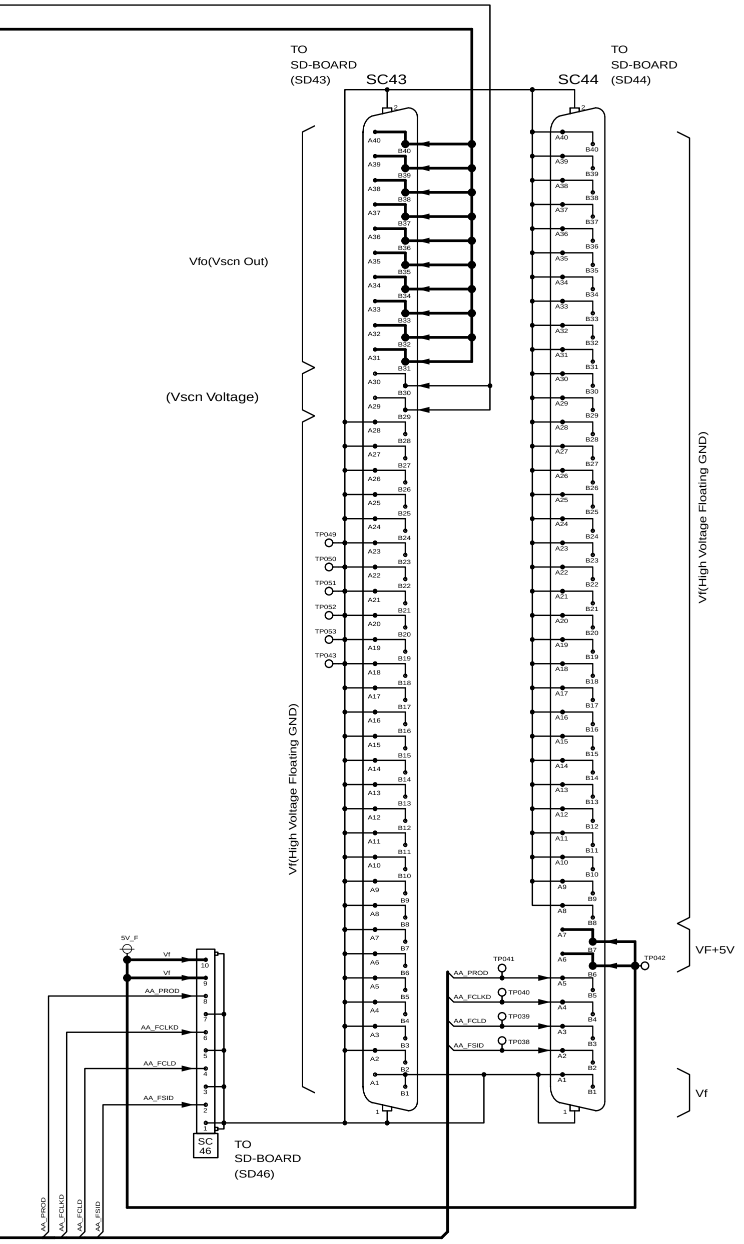
SC-BOARD (2/3)
TNPA3669

TH-65PHD8 SERIES
SC-Board (2 of 3) Schematic Diagram

15.51. SC-Board (3 of 3) Schematic Diagram

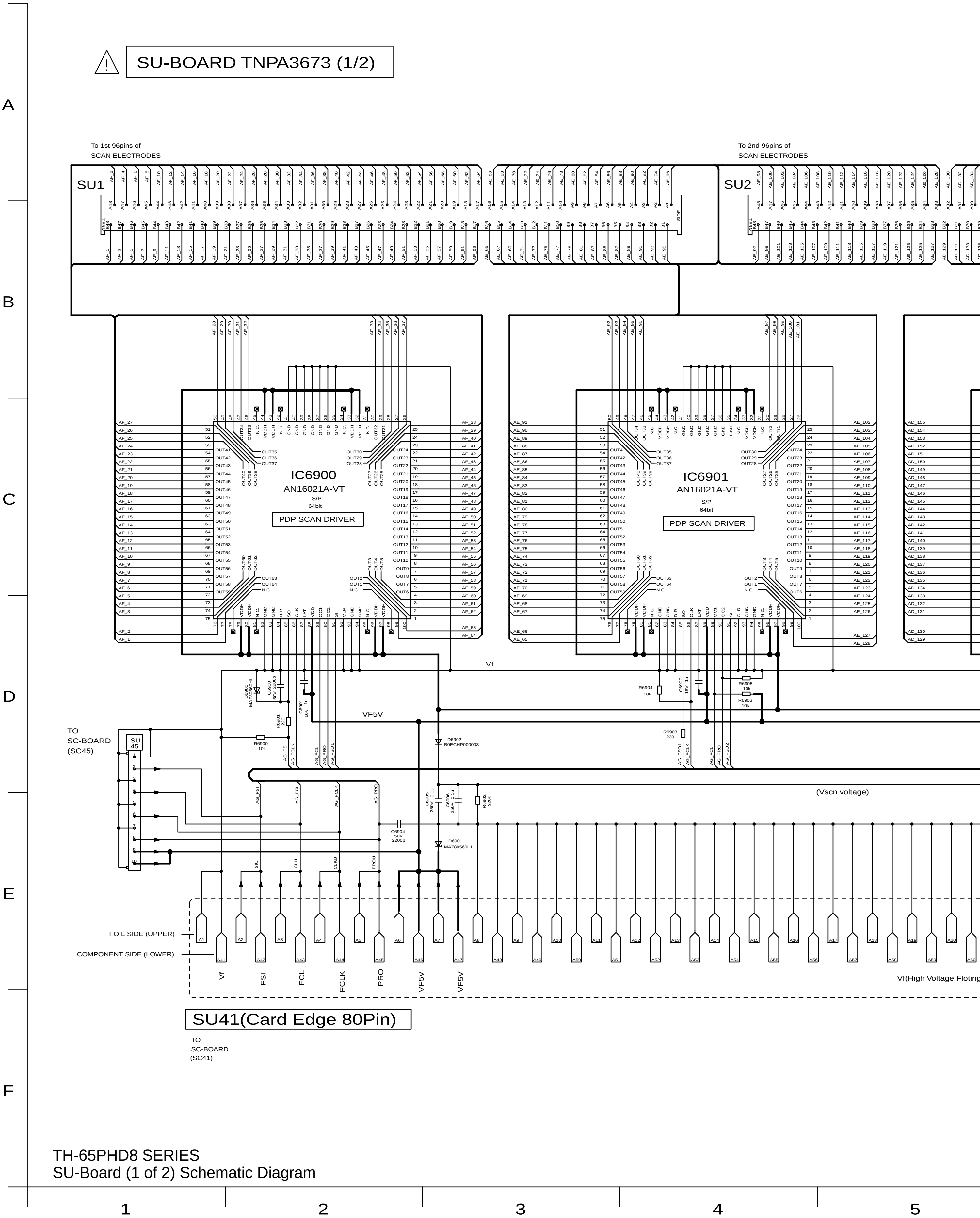

11
12
13
14
SC 45
TO SU-BOARD (SU45)
AA_FSIU
AA_FCLU
AA_FCLKU
AA_PROU
Vf
Vf
TP032
TP033
TP034
TP035
TP036
5V_F
SC41
TO SU-BOARD (SU41)
Vf
VF+5V
Vf(High Voltage Floating GND)
(Vscn Voltage)
Vf(High Voltage Floating GND)
Vfo(Vscn Out)
TP037
TP044
TP045
TP046
TP047
TP048
SC42
TO SU-BOARD (SU42)
TP062
TP063
ZA6401 K4CD01000013
ZA6402 K4CD01000013
ZA6403 K4CD01000013
5V_F
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID

SC-BOARD TNPA3669 (3/3)

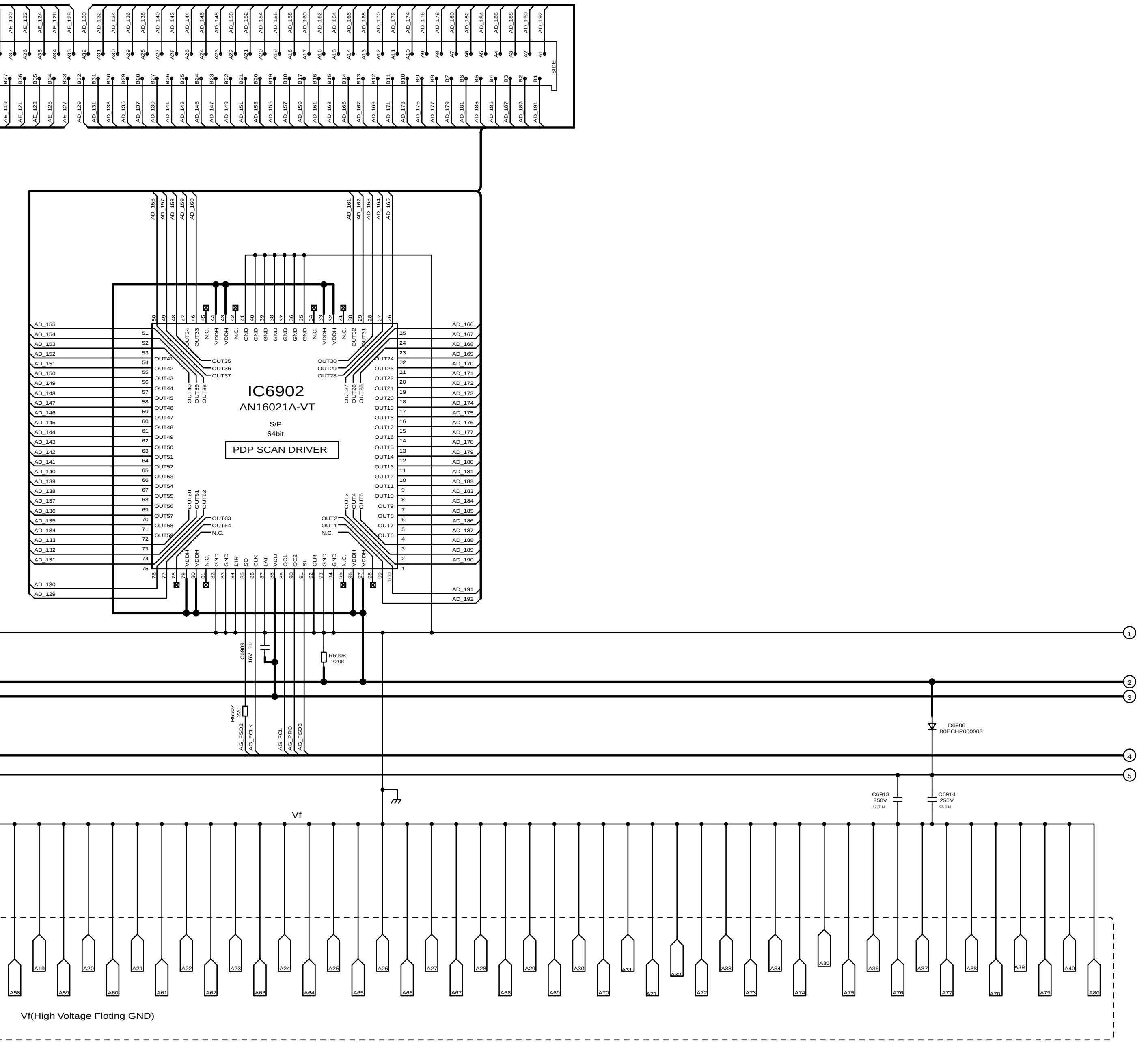

TO
SD-BOARD
(SD43)
SC43
TO
SD-BOARD
(SD44)
SC44
Vfo(Vscn Out)
(Vscn Voltage)
Vf(High Voltage Floating GND)
Vf(High Voltage Floating GND)
VF+5V
Vf
TP049
TP050
TP051
TP052
TP053
TP043
TP041
TP040
TP039
TP038
TP042
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID
5V_F
Vf
SC 46
TO
SD-BOARD
(SD46)
A1 … A40
B1 … B40

TH-65PHD8 SERIES
SC-Board (3 of 3) Schematic Diagram

15.52. SU-Board (1 of 2) Schematic Diagram

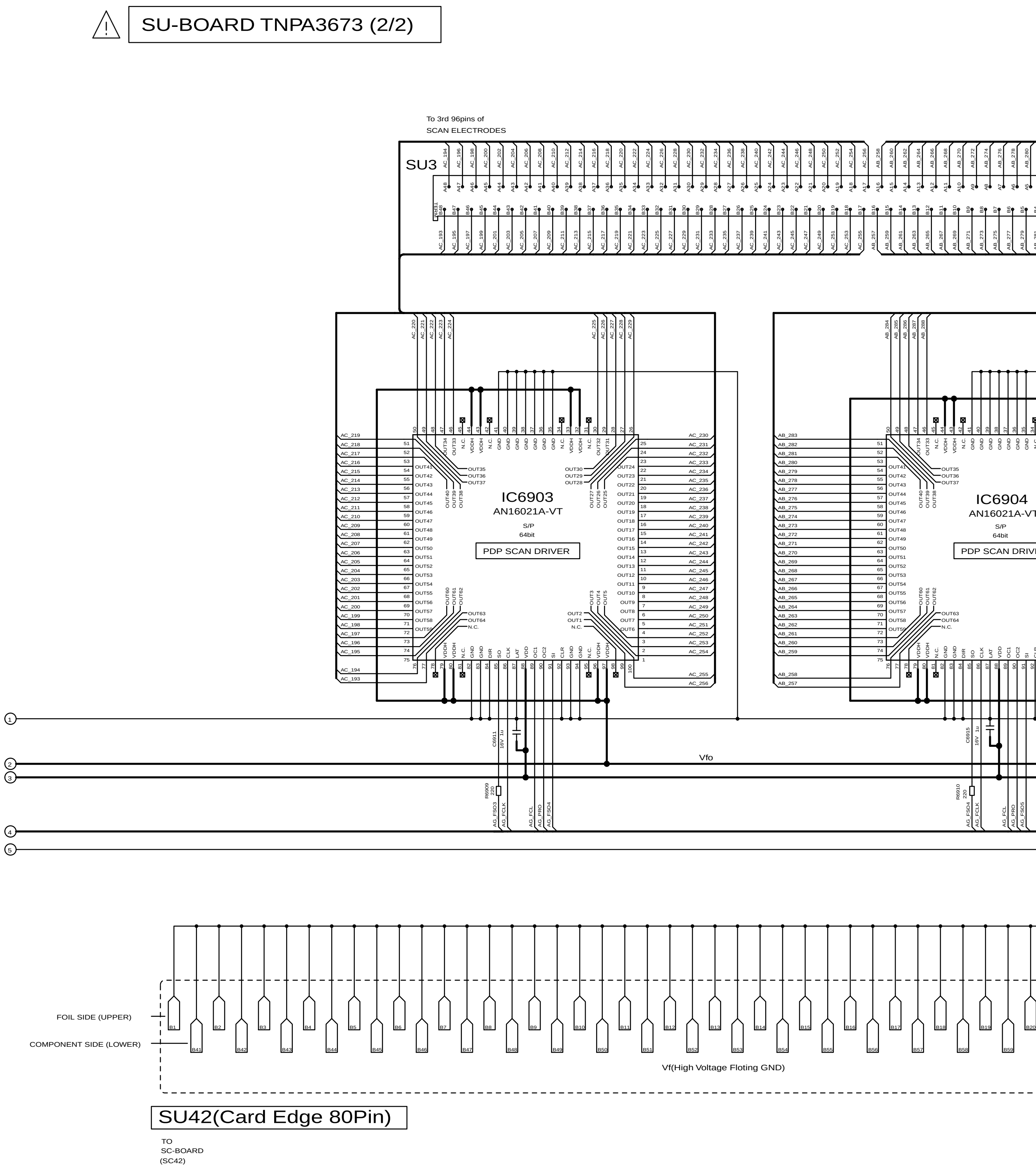

A
B
C
D
E
F
1
2
3
4
5
SU-BOARD TNPA3673 (1/2)
To 1st 96pins of
SCAN ELECTRODES
To 2nd 96pins of
SCAN ELECTRODES
SU1
SU2
SIDE
IC6900
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6901
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
VF5V
D6900
MAZ8056OHL
C6900
50V 2200p
C6901
16V 1u
R6901
220
R6900
10k
D6902
B0ECHP000003
R6904
10k
C6907
16V 1u
R6905
10k
R6906
10k
R6903
220
C6905
250V 0.1u
C6906
250V 0.1u
R6902
220k
C6904
50V
2200p
D6901
MAZ80560HL
AG_FSI
AG_FCLK
AG_FCL
AG_PRO
AG_FSO1
AG_FSO2
SIU
CLU
CLKU
PROU
(Vscn voltage)
TO
SC-BOARD
(SC45)
SU
45
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vf
FSI
FCL
FCLK
PRO
VF5V
VF5V
Vf(High Voltage Floting
SU41(Card Edge 80Pin)
TO
SC-BOARD
(SC41)

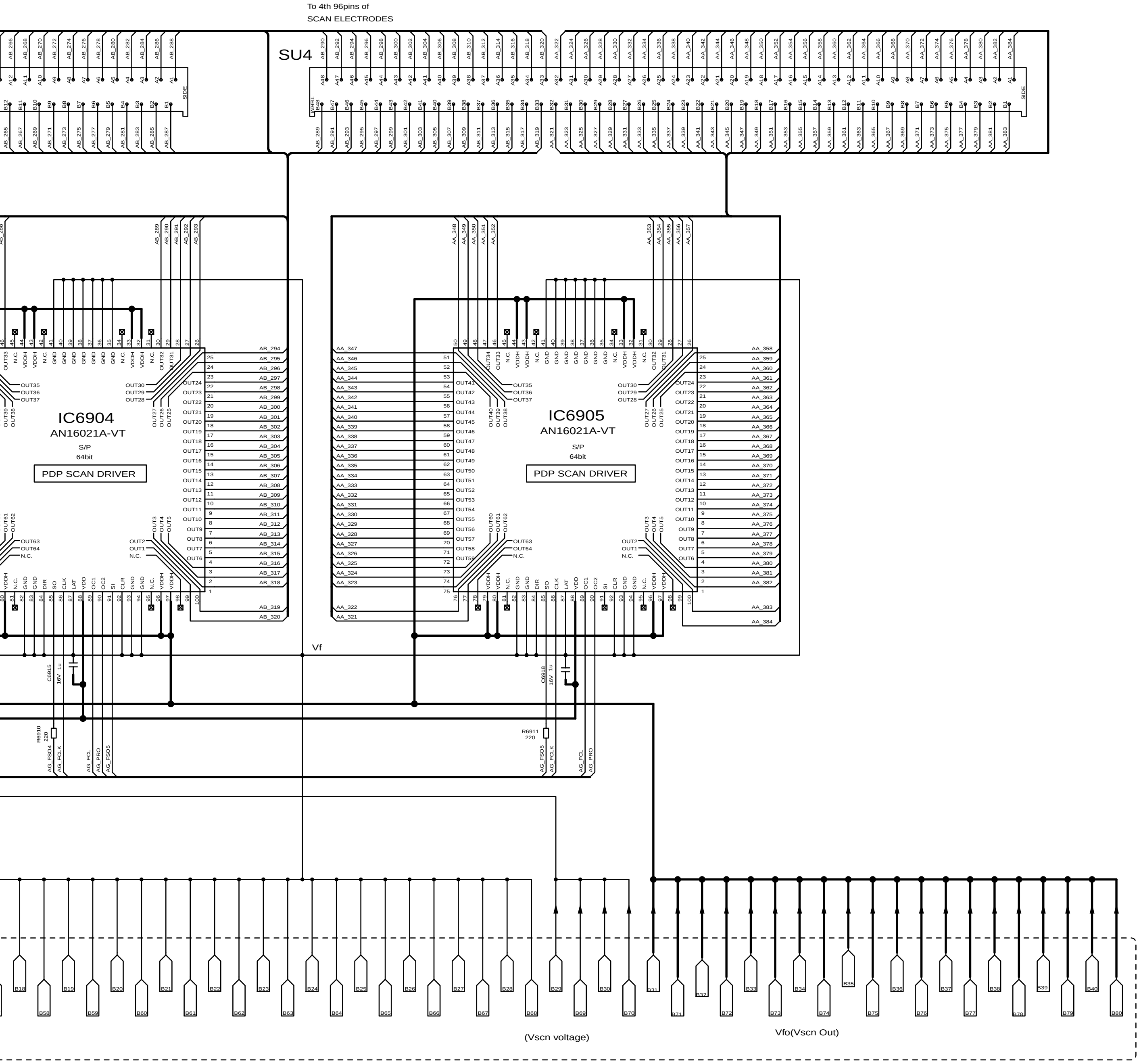
TH-65PHD8 SERIES
SU-Board (1 of 2) Schematic Diagram


IC6902
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
SIDE
R6908
220k
C6909
16V 1u
R6907
220
AG_FSO2
AG_FCLK
AG_FCL
AG_PRO
AG_FSO3
D6906
B0ECHP000003
C6913
250V
0.1u
C6914
250V
0.1u
Vf
Vf(High Voltage Floting GND)
1
2
3
4
5

TH-65PHD8 SERIES
SU-Board (1 of 2) Schematic Diagram

15.53. SU-Board (2 of 2) Schematic Diagram

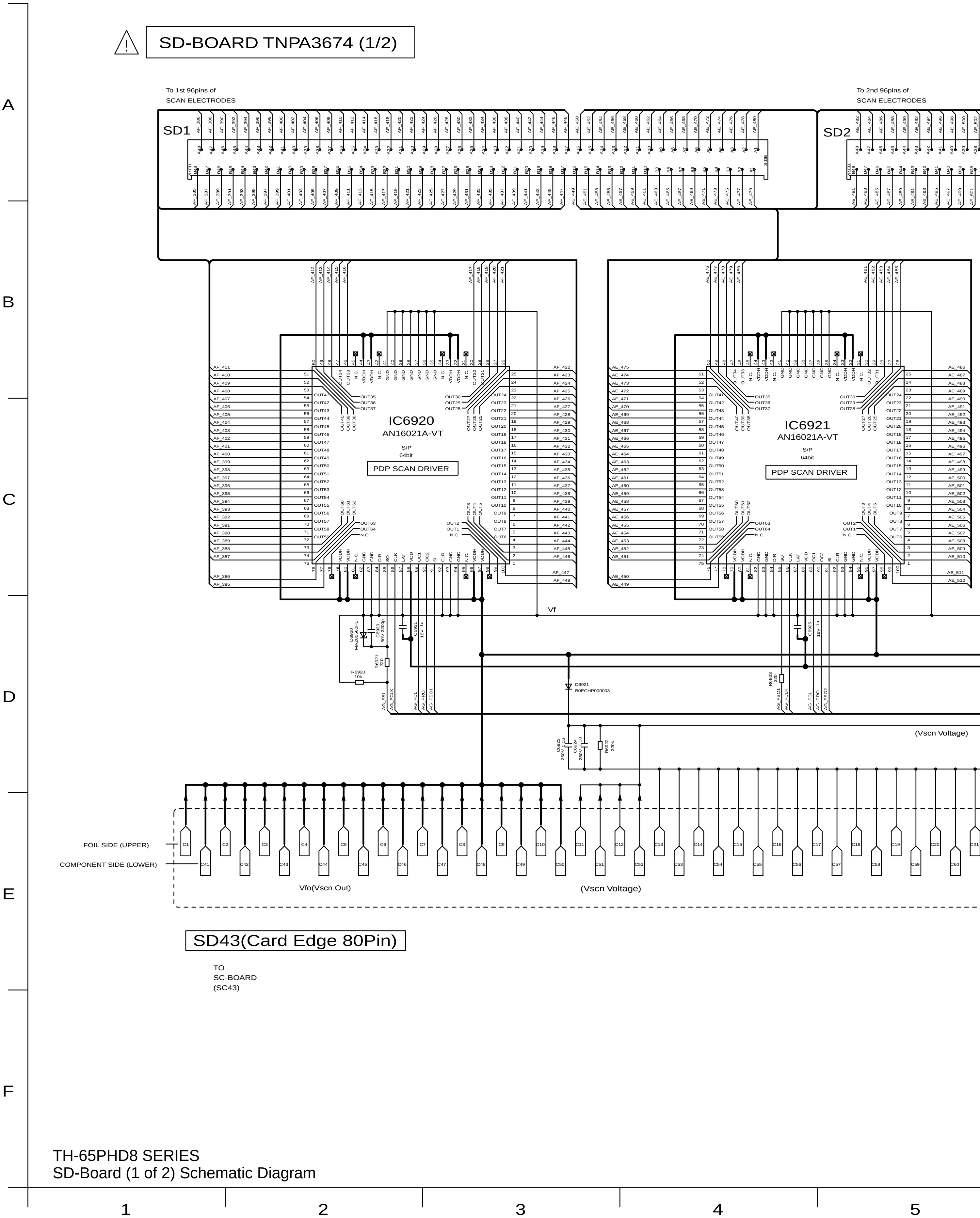

SU-BOARD TNPA3673 (2/2)
To 3rd 96pins of
SCAN ELECTRODES
SU3
IC6903
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6904
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
C6911
16V 1u
C6915
16V 1u
R6909
220
R6910
220
Vfo
AG_FSO3
AG_FCLK
AG_FCL
AG_PRO
AG_FSO4
AG_FSO5
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vf(High Voltage Floting GND)
SU42(Card Edge 80Pin)
TO
SC-BOARD
(SC42)
1
2
3
4
5


To 4th 96pins of
SCAN ELECTRODES
SU4
IC6904
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6905
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
C6915
16V 1u
C6916
16V 1u
R6910
220
R6911
220
AG_FSO4
AG_FCLK
AG_FCL
AG_PRO
AG_FSO5
(Vscn voltage)
Vfo(Vscn Out)

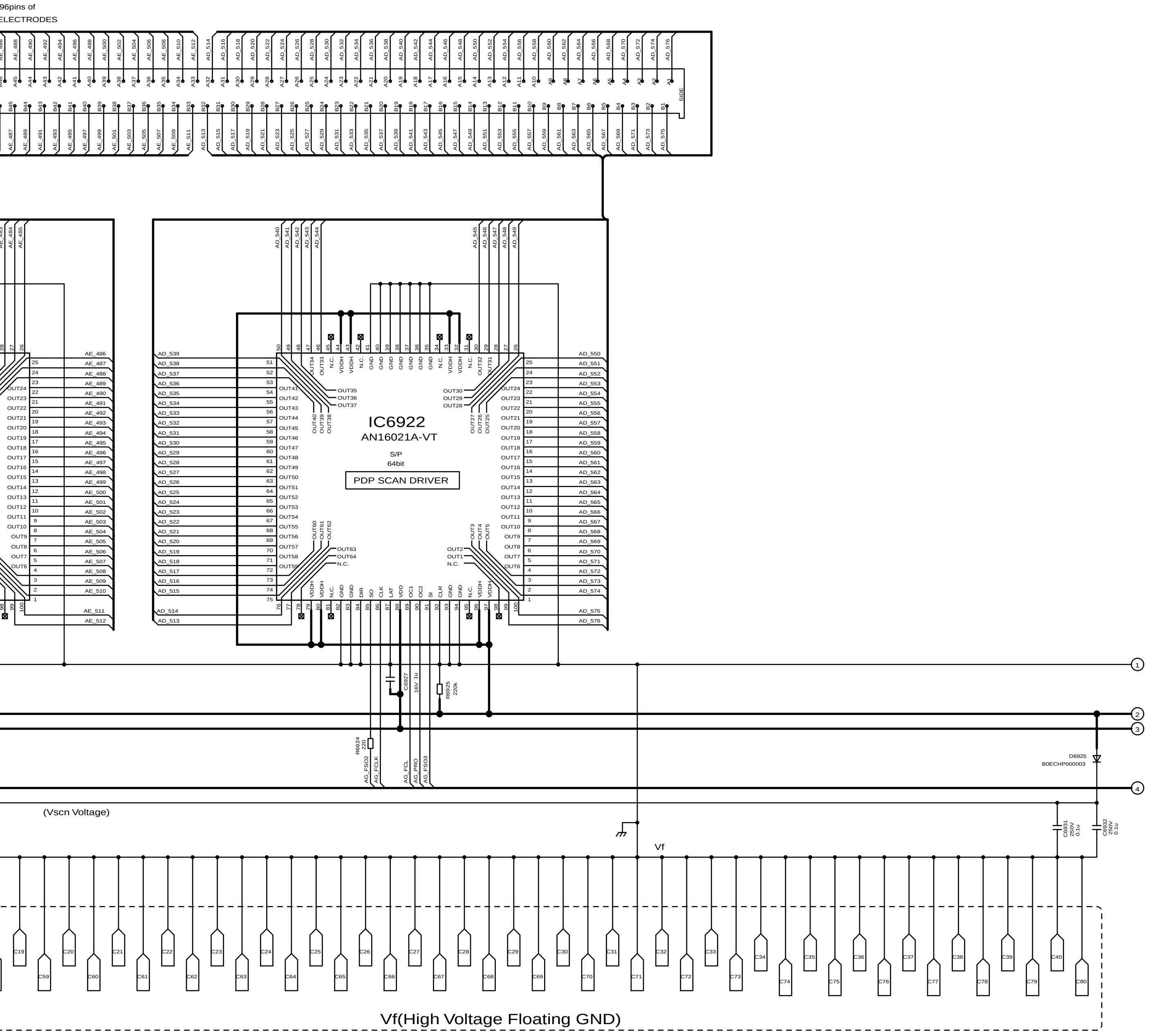
TH-65PHD8 SERIES
SU-Board (2 of 2) Schematic Diagram

14	15	16	17	18

15.54. SD-Board (1 of 2) Schematic Diagram


SD-BOARD TNPA3674 (1/2)
To 1st 96pins of
SCAN ELECTRODES
To 2nd 96pins of
SCAN ELECTRODES
SD1
SD2
IC6920
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6921
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
D6920
MAZ8056GHL
C6920
50V 2200p
C6921
16V 1u
R6921
220
R6920
10k
C6925
16V 1u
R6923
220
D6921
B0ECHP000003
C6923
250V 0.1u
C6924
250V 0.1u
R6922
220k
AG_FSI
AG_FCLK
AG_FCL
AG_PRO
AG_FSO1
AG_FSO2
(Vscn Voltage)
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
Vfo(Vscn Out)
(Vscn Voltage)
SD43(Card Edge 80Pin)
TO
SC-BOARD
(SC43)
A
B
C
D
E
F
1
2
3
4
5

TH-65PHD8 SERIES
SD-Board (1 of 2) Schematic Diagram

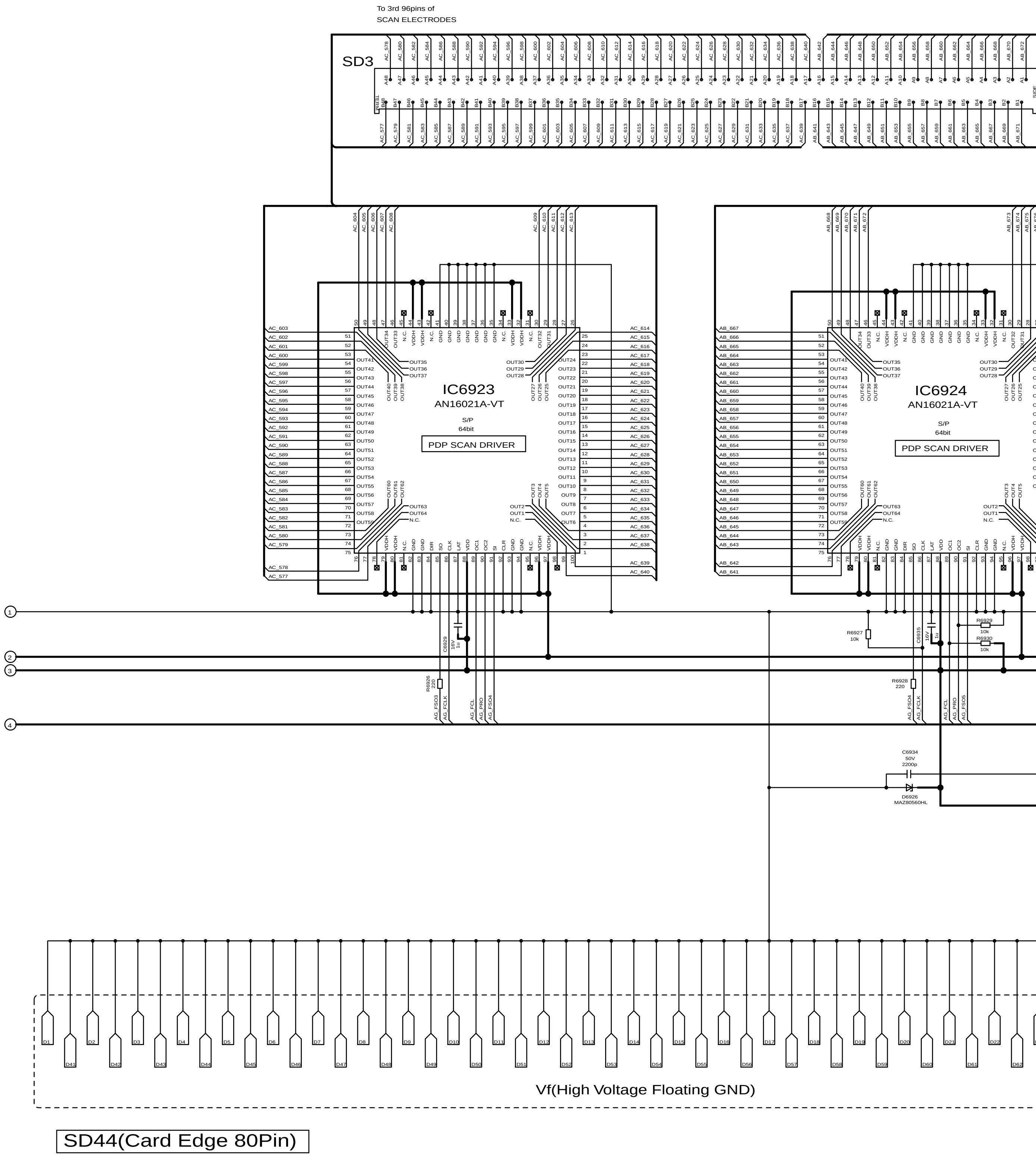

96pins of
ELECTRODES
SIDE
IC6922
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
C6927
16V 1u
R6925
220k
R6924
220
AG_FSO2
AG_FCLK
AG_FCL
AG_PRO
AG_FSO3
D6925
B0ECHP000003
(Vscn Voltage)
C6931
250V
0.1u
C6932
250V
0.1u
Vf
Vf(High Voltage Floating GND)
1
2
3
4

TH-65PHD8 SERIES
SD-Board (1 of 2) Schematic Diagram

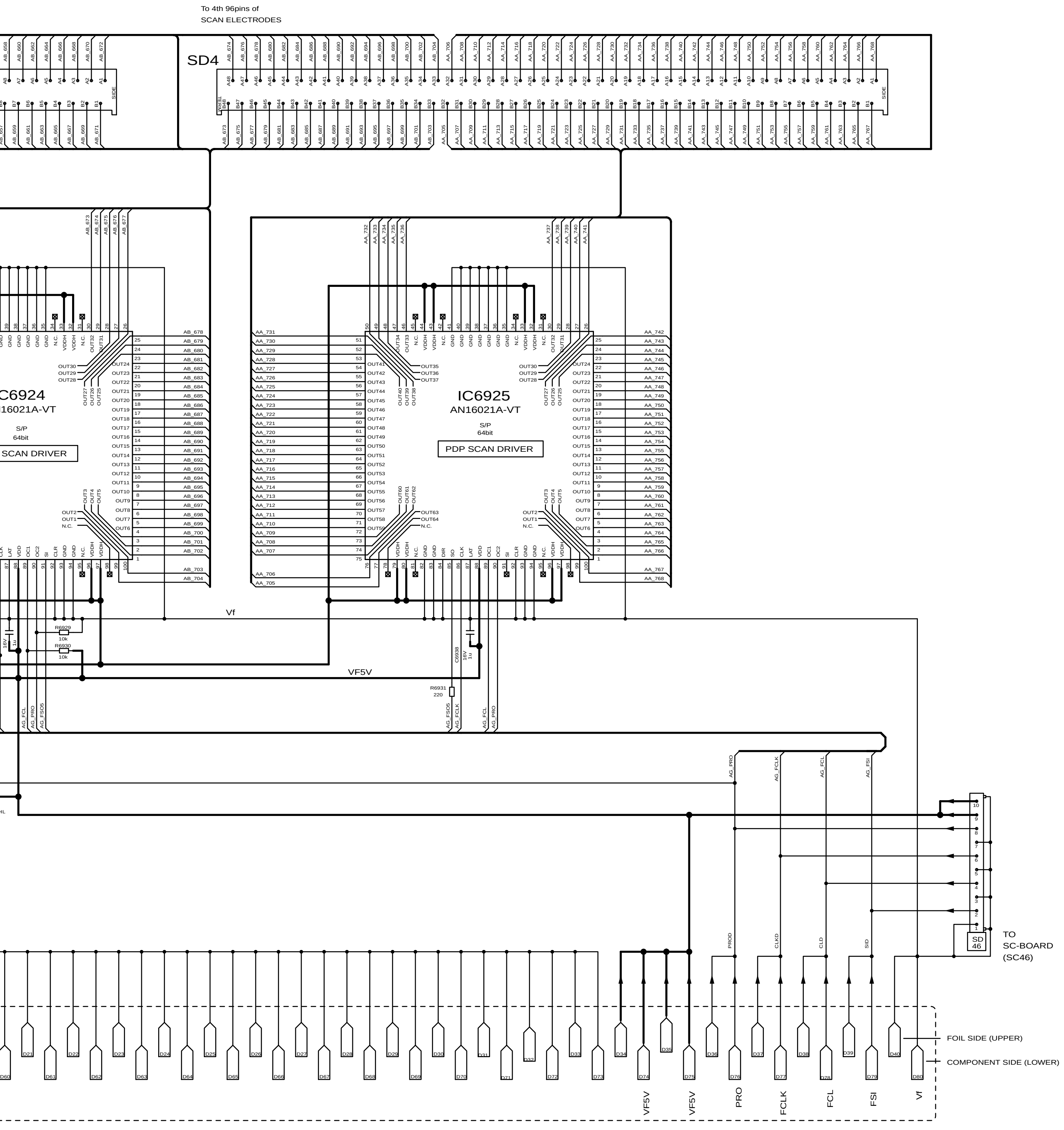
5	6	7	8	9

15.55. SD-Board (2 of 2) Schematic Diagram

SD-BOARD TNPA3674 (2/2)


To 3rd 96pins of
SCAN ELECTRODES
SD3
IC6923
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6924
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
C6929
16V
1u
R6926
220
R6927
10k
R6928
220
R6929
10k
R6930
10k
C6935
16V
1u
C6934
50V
2200p
D6926
MAZ80560HL
AG_FSO3
AG_FCLK
AG_FCL
AG_PRO
AG_FSO4
AG_FSO5
1
2
3
4
Vf(High Voltage Floating GND)
SD44(Card Edge 80Pin)
TO
SC-BOARD
(SC44)

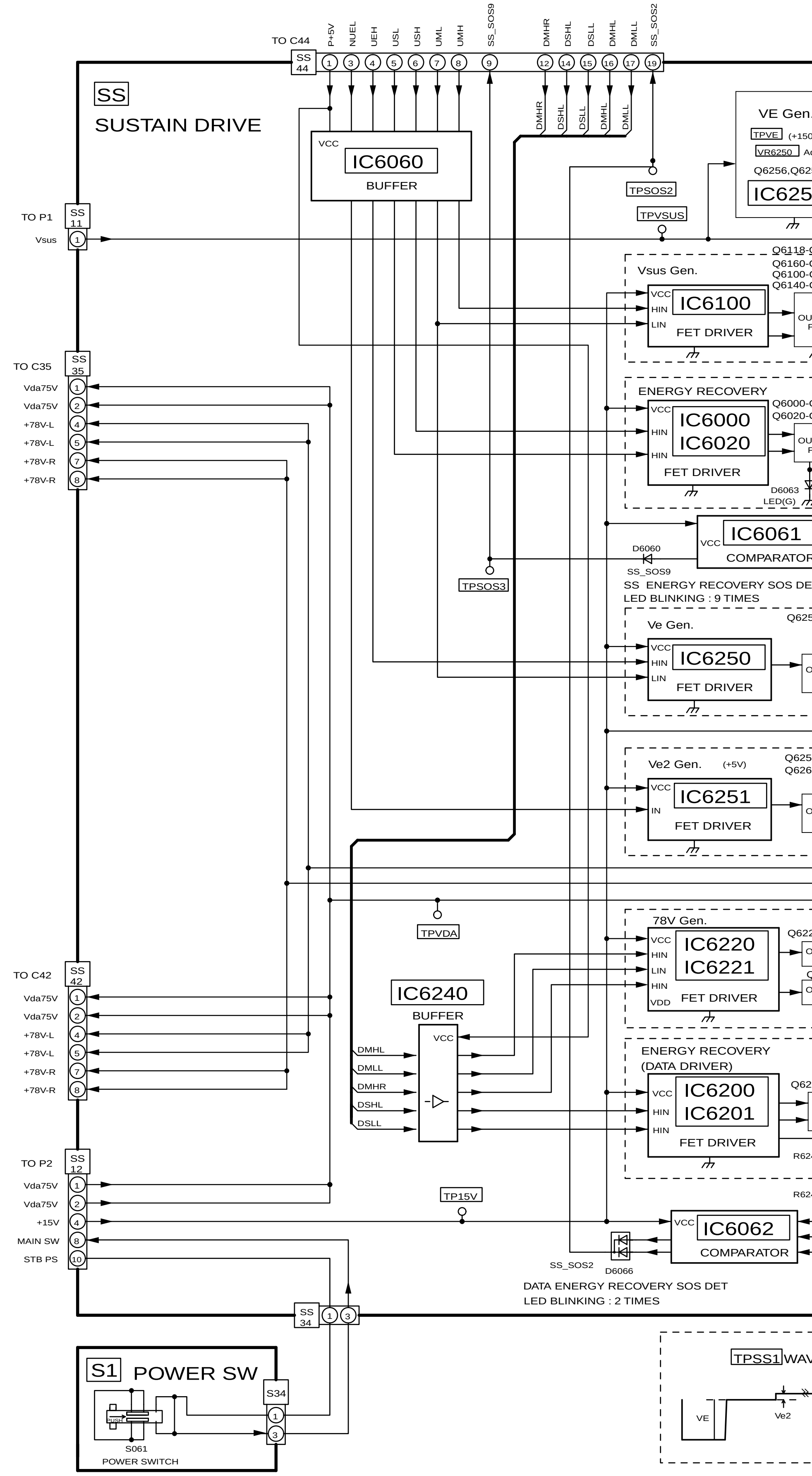
TH-65PHD8 SERIES
SD-Board (2 of 2) Schematic Diagram


To 4th 96pins of
SCAN ELECTRODES
SD4
IC6924
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
IC6925
AN16021A-VT
S/P
64bit
PDP SCAN DRIVER
Vf
VF5V
R6929
10k
R6930
10k
R6931
220
C6938
16V
1u
AG_PRO
AG_FCLK
AG_FCL
AG_FSI
AG_FSO5
PROD
CLKD
CLD
SID
TO
SC-BOARD
(SC46)
SD
46
FOIL SIDE (UPPER)
COMPONENT SIDE (LOWER)
VF5V
VF5V
PRO
FCLK
FCL
FSI
Vf

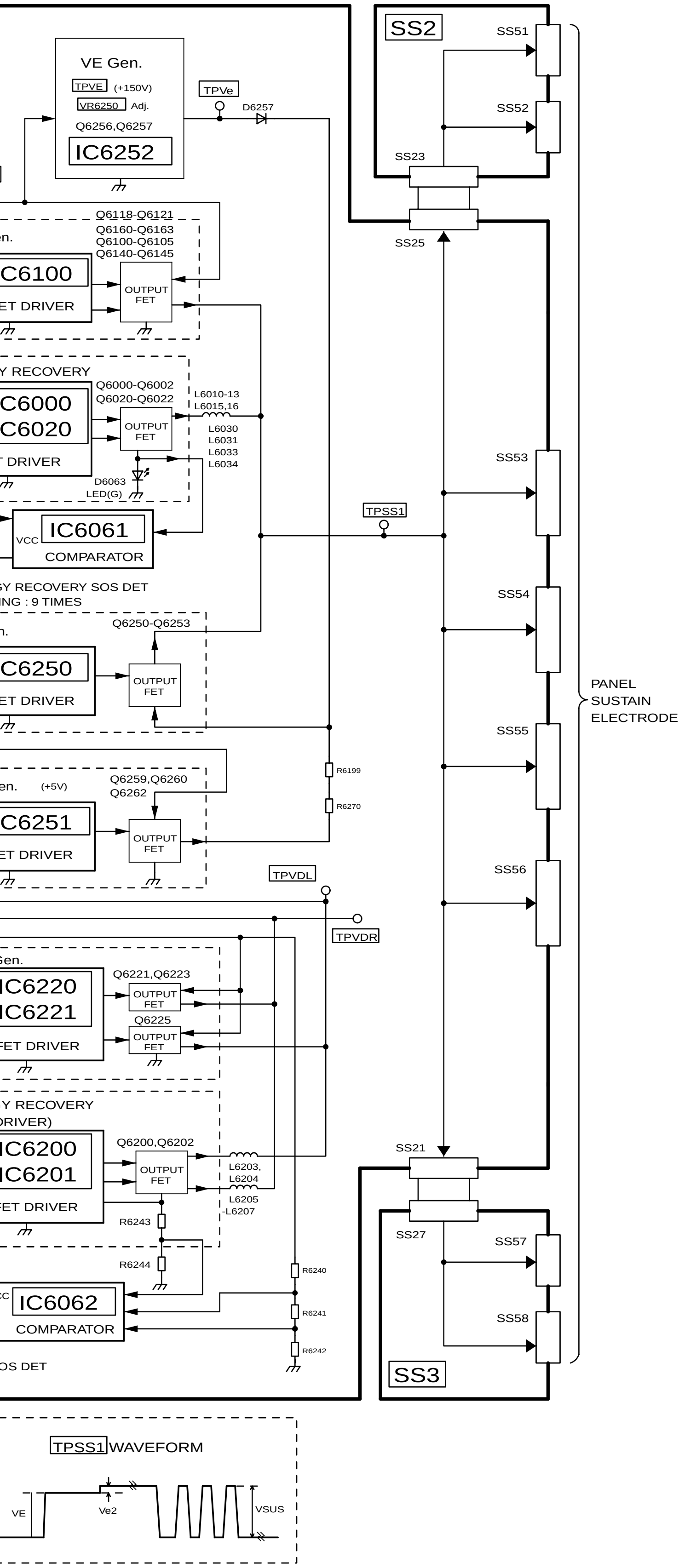
TH-65PHD8 SERIES
SD-Board (2 of 2) Schematic Diagram

14	15	16	17	18

15.56. SS, S1, SS2 and SS3-Board Block Diagram

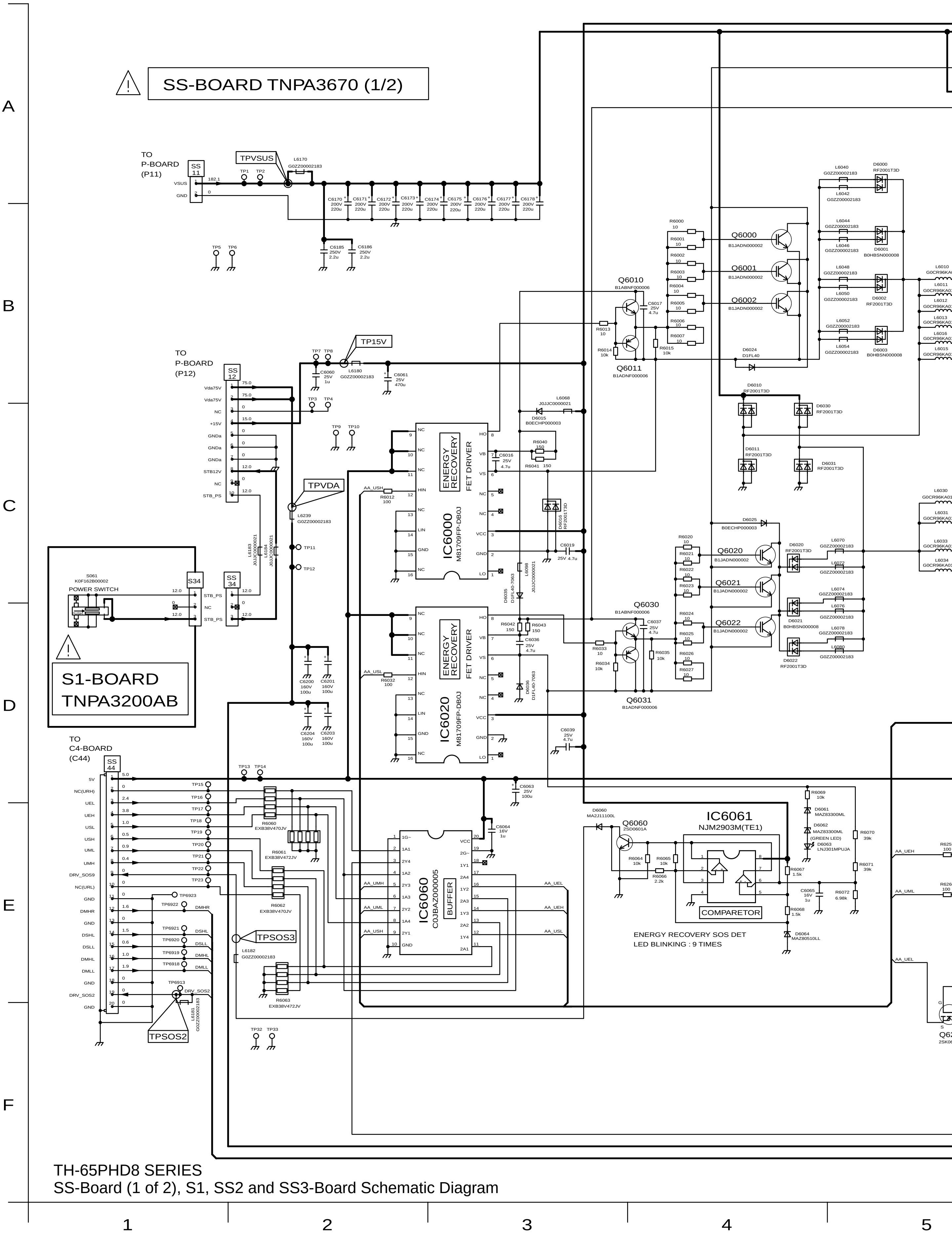

TO C44
SS 44
P+5V
NUEL
UEH
USL
USH
UML
UMH
SS_SOS9
DMHR
DSHL
DSLL
DMHL
DMLL
SS_SOS2
SS
SUSTAIN DRIVE
VCC
IC6060
BUFFER
TO P1
SS 11
Vsus
TPSOS2
TPVSUS
VE Gen.
TPVE
VR6250
Q6256,Q62
IC625
Q6118-
Q6160-
Q6100-
Q6140-
Vsus Gen.
IC6100
FET DRIVER
VCC
HIN
LIN
TO C35
SS 35
Vda75V
Vda75V
+78V-L
+78V-L
+78V-R
+78V-R
ENERGY RECOVERY
Q6000-
Q6020-
IC6000
IC6020
FET DRIVER
D6063
LED(G)
IC6061
COMPARATOR
D6060
SS_SOS9
TPSOS3
SS ENERGY RECOVERY SOS DE
LED BLINKING : 9 TIMES
Ve Gen.
Q625
IC6250
FET DRIVER
Ve2 Gen.
(+5V)
Q625
Q626
IC6251
FET DRIVER
IN
TPVDA
78V Gen.
Q622
IC6220
IC6221
FET DRIVER
VDD
TO C42
SS 42
IC6240
BUFFER
DMHL
DMLL
DMHR
DSHL
DSLL
ENERGY RECOVERY
(DATA DRIVER)
Q62
IC6200
IC6201
FET DRIVER
R62
TO P2
SS 12
+15V
MAIN SW
STB PS
TP15V
IC6062
COMPARATOR
SS_SOS2
D6066
DATA ENERGY RECOVERY SOS DET
LED BLINKING : 2 TIMES
SS 34
S1
POWER SW
S34
S061
POWER SWITCH
TPSS1
WAV
VE
Ve2

TH-65PHD8 SERIES
SS, S1, SS2 and SS3-Board Block Diagram


VE Gen.
TPVE (+150V)
VR6250 Adj.
Q6256,Q6257
IC6252
TPVe
D6257
SS2
SS51
SS52
SS23
SS25
Q6118-Q6121
Q6160-Q6163
Q6100-Q6105
Q6140-Q6145
en.
C6100
ET DRIVER
OUTPUT FET
Y RECOVERY
Q6000-Q6002
Q6020-Q6022
C6000
C6020
T DRIVER
OUTPUT FET
L6010-13
L6015,16
L6030
L6031
L6033
L6034
D6063
LED(G)
IC6061
VCC
COMPARATOR
TPSS1
SS53
SY RECOVERY SOS DET
ING : 9 TIMES
Q6250-Q6253
n.
C6250
ET DRIVER
OUTPUT FET
SS54
PANEL
SUSTAIN
ELECTRODE
SS55
R6199
R6270
en. (+5V)
Q6259,Q6260
Q6262
C6251
ET DRIVER
OUTPUT FET
TPVDL
SS56
TPVDR
Gen.
Q6221,Q6223
IC6220
IC6221
OUTPUT FET
Q6225
OUTPUT FET
FET DRIVER
Y RECOVERY
DRIVER)
IC6200
IC6201
Q6200,Q6202
OUTPUT FET
L6203,
L6204
L6205
-L6207
FET DRIVER
R6243
R6244
SS21
SS27
SS57
SS58
SS3
R6240
R6241
R6242
IC6062
C
COMPARATOR
OS DET
TPSS1 WAVEFORM
VE
Ve2
VSUS

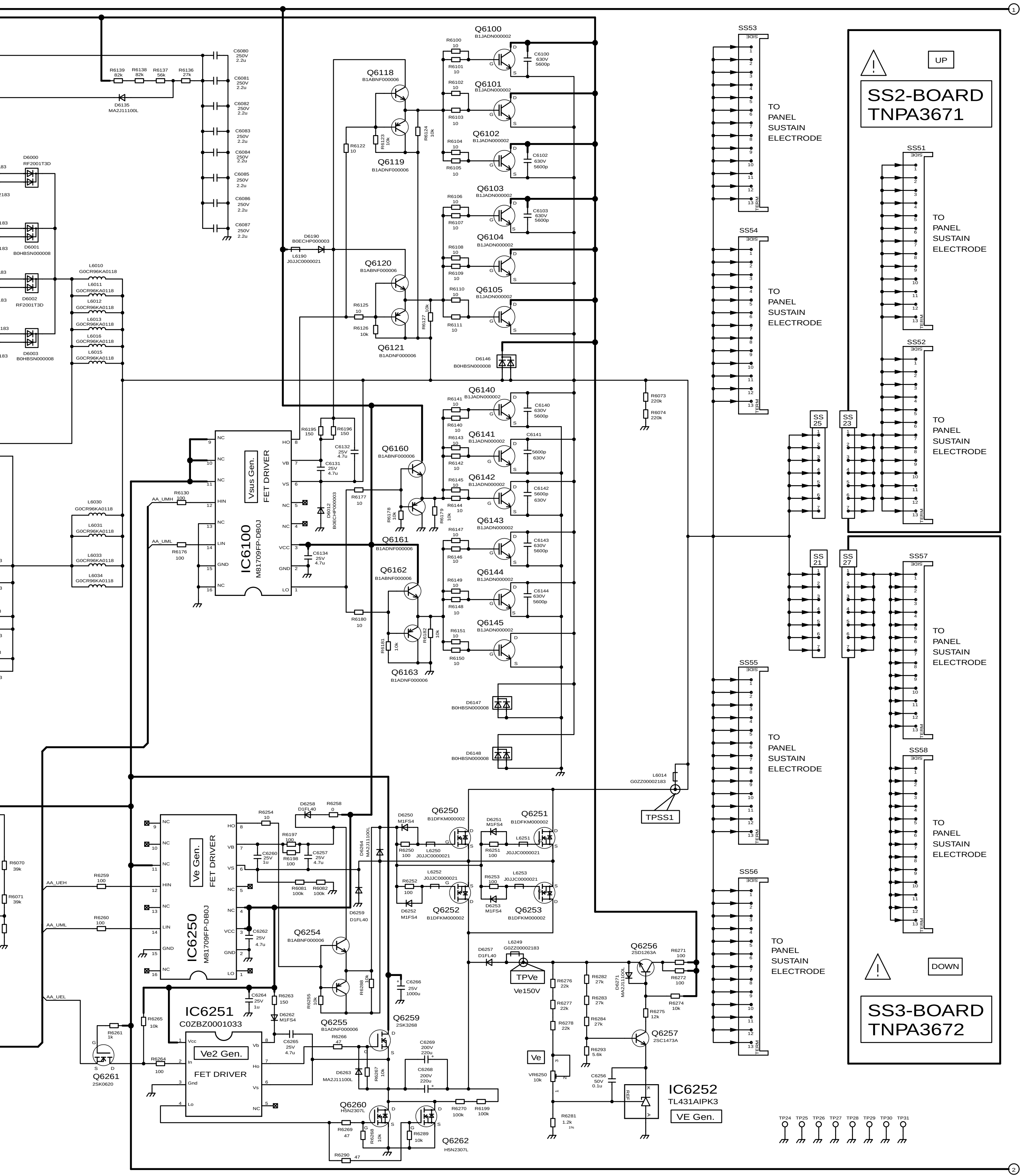
TH-65PHD8 SERIES
SS, S1, SS2 and SS3-Board Block Diagram

15.57. SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram



A
B
C
D
E
F
1
2
3
4
5
SS-BOARD TNPA3670 (1/2)
TO P-BOARD (P11)
SS 11
VSUS
GND
TPVSUS
TP1
TP2
L6170 G0ZZ00002183
C6170 200V 220u
C6171 200V 220u
C6172 200V 220u
C6173 200V 220u
C6174 200V 220u
C6175 200V 220u
C6176 200V 220u
C6177 200V 220u
C6178 200V 220u
C6185 250V 2.2u
C6186 250V 2.2u
TP5
TP6
TO P-BOARD (P12)
SS 12
Vda75V
Vda75V
NC
+15V
GNDa
GNDa
GNDa
STB12V
NC
STB_PS
TP7
TP8
TP15V
C6060 25V 1u
L6180 G0ZZ00002183
C6061 25V 470u
TP3
TP4
TP9
TP10
TPVDA
L6239 G0ZZ00002183
TP11
TP12
L6183 J0JJC0000021
L6184 J0JJC0000021
S061 K0F162B00002
POWER SWITCH
S34
SS 34
STB_PS
NC
STB_PS
S1-BOARD
TNPA3200AB
C6200 160V 100u
C6201 160V 100u
C6204 160V 100u
C6203 160V 100u
IC6000
M81709FP-DB0J
ENERGY RECOVERY
FET DRIVER
IC6020
M81709FP-DB0J
ENERGY RECOVERY
FET DRIVER
AA_USH
R6012 100
AA_USL
R6032 100
L6068 J0JJC0000021
D6015 B0ECHP000003
R6040 150
R6041 150
C6016 25V 4.7u
D6016 RF2001T3D
C6019 25V 4.7u
D6035 D1FL40-7063
L6069 J0JJC0000021
R6042 150
R6043 150
C6036 25V 4.7u
D6036 D1FL40-7063
C6039 25V 4.7u
Q6010 B1ABNF000006
Q6011 B1ADNF000006
R6013 10
R6014 10k
C6017 25V 4.7u
R6015 10k
R6000 10
R6001 10
R6002 10
R6003 10
R6004 10
R6005 10
R6006 10
R6007 10
Q6000 B1JADN000002
Q6001 B1JADN000002
Q6002 B1JADN000002
D6024 D1FL40
L6040 G0ZZ00002183
L6042 G0ZZ00002183
D6000 RF2001T3D
L6044 G0ZZ00002183
L6046 G0ZZ00002183
D6001 B0HBSN000008
L6048 G0ZZ00002183
L6050 G0ZZ00002183
D6002 RF2001T3D
L6052 G0ZZ00002183
L6054 G0ZZ00002183
D6003 B0HBSN000008
L6010 G0CR96KA0
L6011 G0CR96KA0
L6012 G0CR96KA0
L6013 G0CR96KA0
L6016 G0CR96KA0
L6015 G0CR96KA0
D6010 RF2001T3D
D6030 RF2001T3D
D6011 RF2001T3D
D6031 RF2001T3D
L6030 G0CR96KA01
L6031 G0CR96KA0
L6033 G0CR96KA0
L6034 G0CR96KA0
D6025 B0ECHP000003
R6020 10
R6021 10
R6022 10
R6023 10
R6024 10
R6025 10
R6026 10
R6027 10
Q6020 B1JADN000002
Q6021 B1JADN000002
Q6022 B1JADN000002
D6020 RF2001T3D
L6070 G0ZZ00002183
L6072 G0ZZ00002183
L6074 G0ZZ00002183
L6076 G0ZZ00002183
D6021 B0HBSN000008
L6078 G0ZZ00002183
L6080 G0ZZ00002183
D6022 RF2001T3D
Q6030 B1ABNF000006
Q6031 B1ADNF000006
C6037 25V 4.7u
R6033 10
R6034 10k
R6035 10k
TO C4-BOARD (C44)
SS 44
5V
NC(URH)
UEL
UEH
USL
USH
UML
UMH
DRV_SOS9
NC(URL)
GND
DMHR
GND
DSHL
DSLL
DMHL
DMLL
GND
DRV_SOS2
GND
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP6923
TP6922
TP6921
TP6920
TP6919
TP6918
TP6913
DMHR
DSHL
DSLL
DMHL
DMLL
DRV_SOS2
TPSOS2
L6181 G0ZZ00002183
R6060 EXB38V470JV
R6061 EXB38V472JV
R6062 EXB38V470JV
TPSOS3
L6182 G0ZZ00002183
R6063 EXB38V472JV
TP32
TP33
C6063 25V 100u
C6064 16V 1u
IC6060
C0JBAZ000005
BUFFER
AA_UMH
AA_UML
AA_USH
AA_UEL
AA_UEH
AA_USL
D6060 MA2J11100L
Q6060 2SD0601A
R6064 10k
R6065 10k
R6066 2.2k
IC6061
NJM2903M(TE1)
COMPARETOR
R6069 10k
D6061 MAZ83300ML
D6062 MAZ83300ML (GREEN LED)
D6063 LNJ301MPUJA
R6070 39k
R6071 39k
R6067 1.5k
C6065 16V 1u
R6072 6.98k
R6068 1.5k
D6064 MAZ80510LL
ENERGY RECOVERY SOS DET
LED BLINKING : 9 TIMES
AA_UEH
AA_UML
AA_UEL
R625 100
R626 100
Q62 2SK0

TH-65PHD8 SERIES
SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram



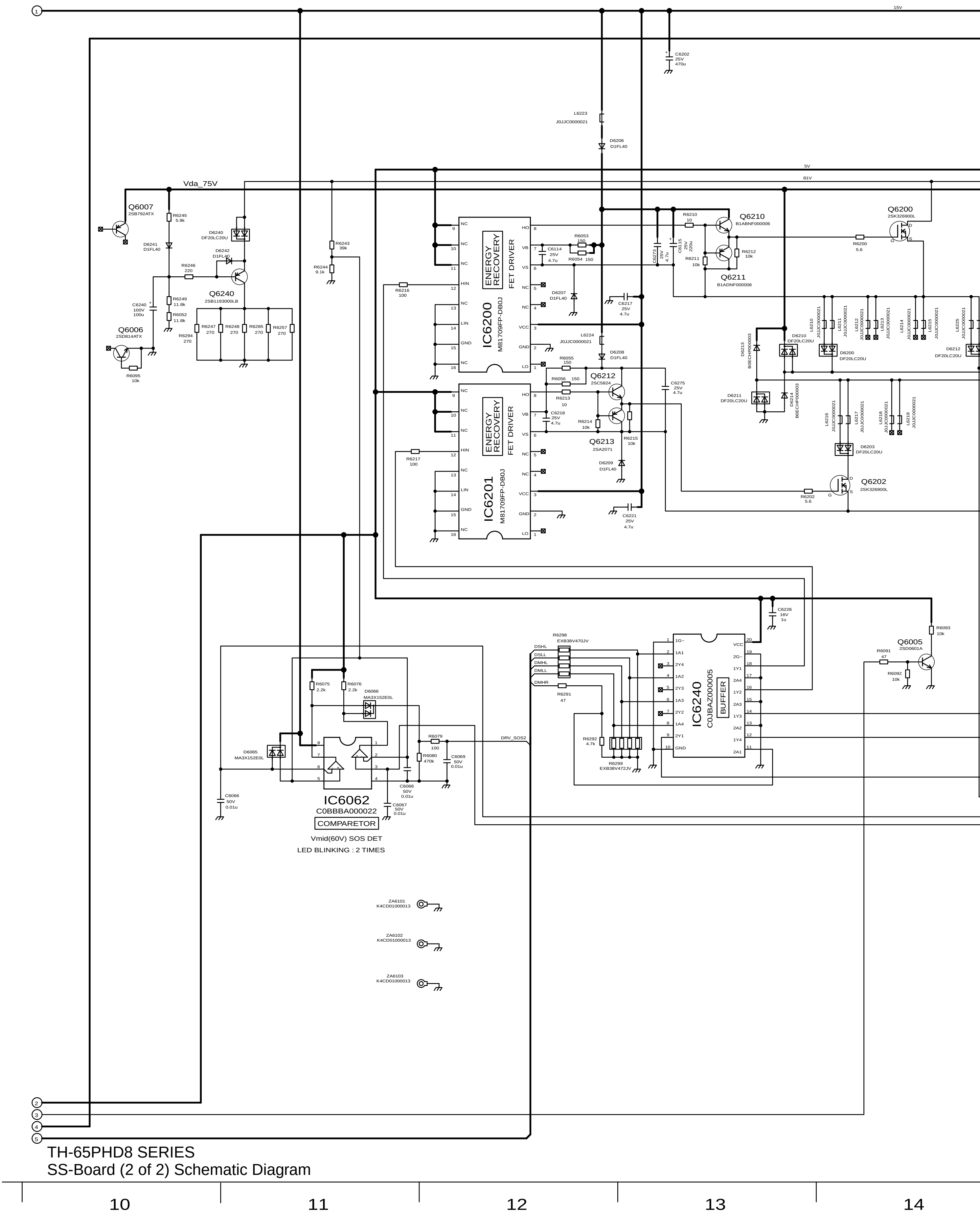
Q6100
B1JADN000002
C6100
630V
5600p
Q6101
B1JADN000002
Q6102
B1JADN000002
C6102
630V
5600p
Q6103
B1JADN000002
C6103
630V
5600p
Q6104
B1JADN000002
Q6105
B1JADN000002
Q6118
B1ABNF000006
Q6119
B1ADNF000006
Q6120
B1ABNF000006
Q6121
B1ADNF000006
D6190
B0ECHP000003
L6190
J0JJC0000021
D6146
B0HBSN000008
Q6140
B1JADN000002
Q6141
B1JADN000002
Q6142
B1JADN000002
Q6143
B1JADN000002
Q6144
B1JADN000002
Q6145
B1JADN000002
Q6160
B1ABNF000006
Q6161
B1ADNF000006
Q6162
B1ABNF000006
Q6163
B1ADNF000006
D6147
B0HBSN000008
D6148
B0HBSN000008
IC6100
M81709FP-DB0J
Vsus Gen.
FET DRIVER
IC6250
M81709FP-DB0J
Ve Gen.
FET DRIVER
IC6251
C0ZBZ0001033
Ve2 Gen.
FET DRIVER
Q6250
B1DFKM000002
Q6251
B1DFKM000002
Q6252
B1DFKM000002
Q6253
B1DFKM000002
Q6254
B1ABNF000006
Q6255
B1ADNF000006
Q6259
2SK3268
Q6260
H5N2307L
Q6262
H5N2307L
Q6261
2SK0620
Q6256
2SD1263A
Q6257
2SC1473A
IC6252
TL431AIPK3
VE Gen.
TPVe
Ve150V
Ve
VR6250
10k
TPSS1
L6014
G0ZZ00002183
R6073
220k
R6074
220k
D6135
MA2J11100L
D6000
RF2001T3D
D6001
B0HBSN000008
D6002
RF2001T3D
D6003
B0HBSN000008
L6010
G0CR96KA0118
L6011
G0CR96KA0118
L6012
G0CR96KA0118
L6013
G0CR96KA0118
L6016
G0CR96KA0118
L6015
G0CR96KA0118
L6030
G0CR96KA0118
L6031
G0CR96KA0118
L6033
G0CR96KA0118
L6034
G0CR96KA0118
C6080
250V
2.2u
R6139
82k
R6138
82k
R6137
56k
R6136
27k
AA_UMH
AA_UML
AA_UEH
AA_UML
AA_UEL
R6070
39k
R6071
39k
SS53
SS54
SS55
SS56
SS51
SS52
SS57
SS58
SS 25
SS 23
SS 21
SS 27
TO
PANEL
SUSTAIN
ELECTRODE
TERM
SS2-BOARD
TNPA3671
UP
SS3-BOARD
TNPA3672
DOWN
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
1
2
3
4
5

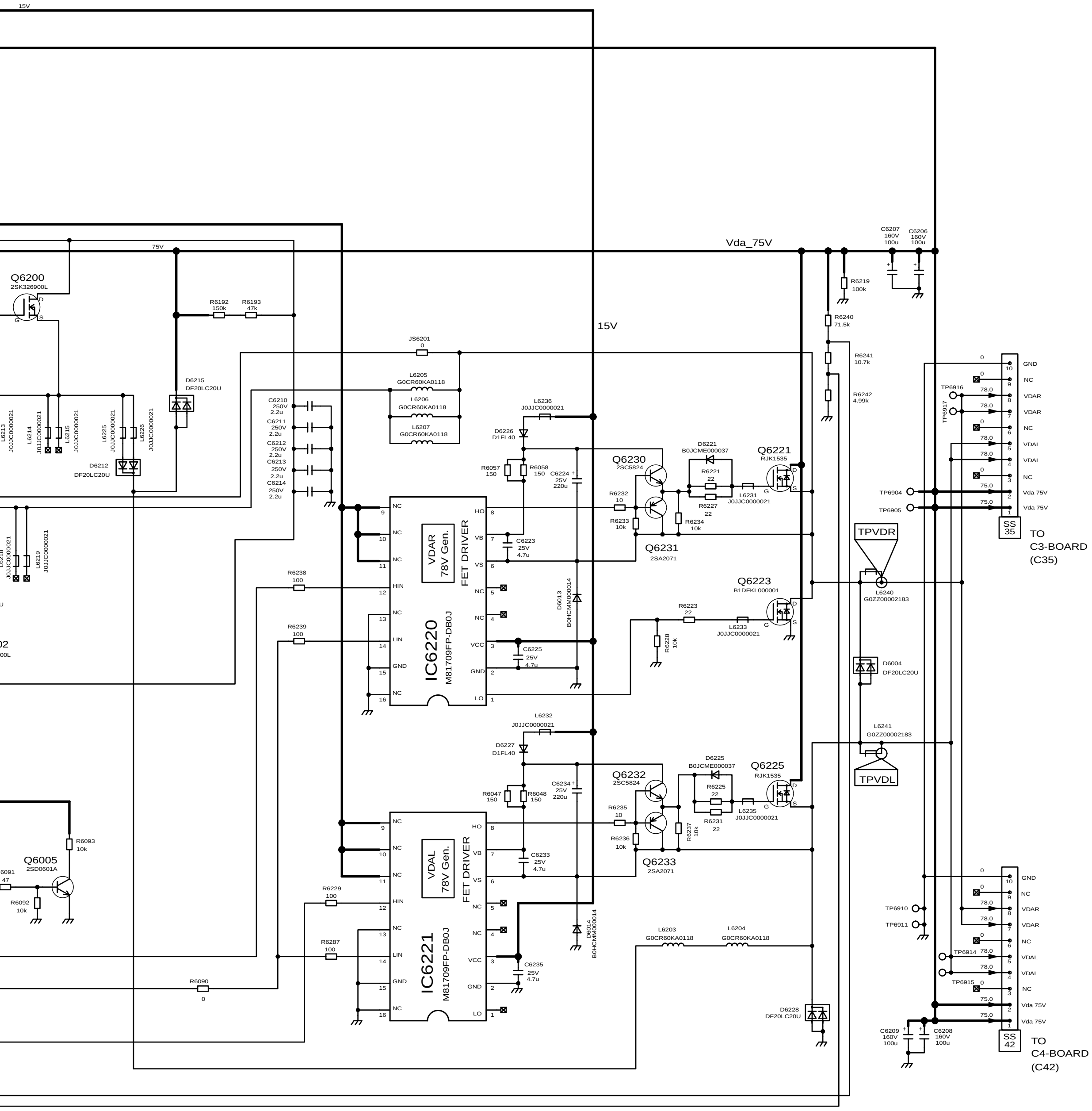
TH-65PHD8 SERIES

SS-Board (1 of 2), S1, SS2 and SS3-Board Schematic Diagram

5	6	7	8	9

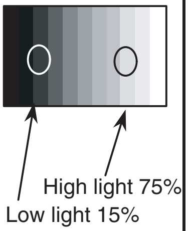
15.58. SS-Board (2 of 2) Schematic Diagram


1
15V
C6202
25V
470u
L6223
J0JJC0000021
D6206
D1FL40
5V
81V
Vda_75V
Q6007
2SB792ATX
R6245
5.9k
D6240
DF20LC20U
D6241
D1FL40
D6242
D1FL40
R6243
39k
R6244
9.1k
R6246
220
Q6240
2SB1193000LB
C6240
100V
100u
R6249
11.8k
R6052
11.8k
R6294
270
R6247
270
R6248
270
R6285
270
R6257
270
Q6006
2SD814ATX
R6095
10k
IC6200
M81709FP-DB0J
ENERGY RECOVERY
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6216
100
C6114
25V
4.7u
R6053
150
R6054
150
D6207
D1FL40
C6217
25V
4.7u
C6273
25V
4.7u
C6115
25V
220u
R6210
10
Q6210
B1ABNF000006
R6211
10k
R6212
10k
Q6211
B1ADNF000006
Q6200
2SK326900L
R6200
5.6
L6224
J0JJC0000021
R6055
150
D6208
D1FL40
R6056
150
Q6212
2SC5824
R6213
10
C6218
25V
4.7u
R6214
10k
C6275
25V
4.7u
Q6213
2SA2071
R6215
10k
D6209
D1FL40
C6221
25V
4.7u
IC6201
M81709FP-DB0J
R6217
100
D6213
B0ECHP000003
D6210
DF20LC20U
L6210
J0JJC0000021
L6211
J0JJC0000021
L6212
J0JJC0000021
L6213
J0JJC0000021
L6214
J0JJC0000021
L6215
J0JJC0000021
L6225
J0JJC0000021
D6200
DF20LC20U
D6212
DF20LC20U
D6211
DF20LC20U
D6214
B0ECHP000003
L6216
J0JJC0000021
L6217
J0JJC0000021
L6218
J0JJC0000021
L6219
J0JJC0000021
D6203
DF20LC20U
Q6202
2SK326900L
R6202
5.6
C6226
16V
1u
R6093
10k
Q6005
2SD0601A
R6091
47
R6092
10k
R6298
EXB38V470JV
DSHL
DSLL
DMHL
DMLL
DMHR
R6291
47
R6292
4.7k
R6299
EXB38V472JV
IC6240
C0JBAZ000005
BUFFER
1G~
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G~
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
DRV_SOS2
R6075
2.2k
R6076
2.2k
D6066
MA3X152E0L
D6065
MA3X152E0L
R6079
100
R6080
470k
C6069
50V
0.01u
C6068
50V
0.01u
C6067
50V
0.01u
C6066
50V
0.01u
IC6062
C0BBBA000022
COMPARETOR
Vmid(60V) SOS DET
LED BLINKING : 2 TIMES
ZA6101
K4CD01000013
ZA6102
K4CD01000013
ZA6103
K4CD01000013
2
3
4
5
TH-65PHD8 SERIES
SS-Board (2 of 2) Schematic Diagram
10
11
12
13
14


15V
75V
Vda_75V
15V
Q6200
2SK326900L
R6192
150k
R6193
47k
D6215
DF20LC20U
D6212
DF20LC20U
L6213
L6214
L6215
L6225
L6226
J0JJC0000021
JS6201
0
L6205
G0CR60KA0118
L6206
G0CR60KA0118
L6207
G0CR60KA0118
C6210
C6211
C6212
C6213
C6214
250V
2.2u
L6236
J0JJC0000021
D6226
D1FL40
R6057
150
R6058
150
C6224
25V
220u
Q6230
2SC5824
D6221
B0JCME000037
Q6221
RJK1535
R6221
22
R6227
22
L6231
J0JJC0000021
R6232
10
R6233
10k
R6234
10k
Q6231
2SA2071
C6223
25V
4.7u
D6013
B0HCMM000014
IC6220
M81709FP-DB0J
VDAR
78V Gen.
FET DRIVER
NC
HIN
LIN
GND
HO
VB
VS
VCC
LO
R6238
100
R6239
100
C6225
25V
4.7u
Q6223
B1DFKL000001
R6223
22
L6233
J0JJC0000021
R6228
10k
C6207
160V
100u
C6206
160V
100u
R6219
100k
R6240
71.5k
R6241
10.7k
R6242
4.99k
TPVDR
L6240
G0ZZ00002183
D6004
DF20LC20U
L6241
G0ZZ00002183
TPVDL
TP6916
TP6917
TP6904
TP6905
GND
NC
VDAR
VDAL
Vda 75V
78.0
75.0
0
SS
35
TO
C3-BOARD
(C35)
L6232
J0JJC0000021
D6227
D1FL40
R6047
150
R6048
150
C6234
25V
220u
Q6232
2SC5824
D6225
B0JCME000037
Q6225
RJK1535
R6225
22
R6231
22
L6235
J0JJC0000021
R6235
10
R6236
10k
R6237
10k
Q6233
2SA2071
C6233
25V
4.7u
D6014
B0HCMM000014
IC6221
M81709FP-DB0J
VDAL
78V Gen.
FET DRIVER
R6229
100
R6287
100
R6090
0
C6235
25V
4.7u
L6203
G0CR60KA0118
L6204
G0CR60KA0118
D6228
DF20LC20U
Q6005
2SD0601A
R6093
10k
R6091
47
R6092
10k
TP6910
TP6911
TP6914
TP6915
C6209
160V
100u
C6208
160V
100u
SS
42
TO
C4-BOARD
(C42)

SS-BOARD TNPA3670 (2/2)

TH-65PHD8 SERIES
SS-Board (2 of 2) Schematic Diagram

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC (VGA) Gray Scale Pattern 	Color Analyzer	Picture menu: Standard Picture: 25 Color temperature: **Cool** Aspect: Full POS./Size: Normal Component/ RGB-IN Select: RGB IIC mode: Panel W/B Adj	PANEL W/B G cut off PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive	Note: · Before adjustment, color signal has not been displayed on panel. · The pedestal adjustment has been done. · The signal root must be A side. 1) Set G cut off to " 80 ". 2)Find 75% (amplitude) of white area by color sensor. 3) Set G Drive to " E0 ". 4) Adjust B and R Drive to set the High color temperature as shown Table 1. 5) Increase equaly R, G and B Drive to get the largest level of 3 color drive to "FC".
2			Picture menu: Standard Picture: 25 Color temperature: **Normal** Aspect: Full POS./Size: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Normal". 2) In Mid color temperature, repeat the procedures 1) to 5) of Cool mode.
3			Picture menu: Standard Picture: 25 Color temperature: **Warm** Aspect: Full POS./Size: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Warm". 2) In Low color temperature, repeat the procedures 1) to 5) of Cool mode.
4	· NTSC · PAL · DVI				1) Copy the R drive, G drive and B drive data obtained in above steps into NTSC, PAL and DVI area.

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Table 1 W/B adjustment values

Color temperature	R	G	B
High	A0-11AD	A0-11AE	A0-11AF
Medium	A0-11B0	A0-11B1	A0-11B2
Low	A0-11B3	A0-11B4	A0-11B5

Table 2 Drive data addresses (PC/RGB)

Color temperature	R	G	B
High	A0-1180	A0-1181	A0-1182
Medium	A0-1183	A0-1184	A0-1185
Low	A0-1186	A0-1187	A0-1188

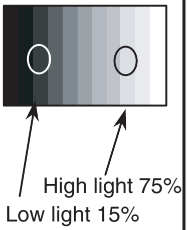
Table 3 Drive data addresses (NTSC)

Color temperature	R	G	B
High	A0-1189	A0-118A	A0-118B
Medium	A0-118C	A0-118D	A0-118E
Low	A0-118F	A0-1190	A0-1191

Table 4 Drive data addresses (PAL)

Color temperature	R	G	B
High	A0-11B6	A0-11B7	A0-11B8
Medium	A0-11B9	A0-11BA	A0-11BB
Low	A0-11BC	A0-11BD	A0-11BE

Table 5 Drive data addresses (DVI)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (YUV2_HD) Gray Scale Pattern  	Color Analyzer	Picture menu: Standard Picture: 25 Color temperature: **Cool** Aspect: Full POS./Sise: Normal Component/ RGB-IN Select: COMPONENT IIC mode: Panel W/B Adj	PANEL W/B G cut off PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive	Note: · Before adjustment, color signal has not been displayed on panel. · The pedestal adjustment has been done. · The signal root must be A side. 1) Set G cut off to " 80 ". 2)Find 75% (amplitude) of white area by color sensor. 3) Set G Drive to " E0 ". 4) Adjust B and R Drive to set the High color temperature as shown Table 1. 5) Increase equaly R, G and B Drive to get the largest level of 3 color drive to "FC".
2			Picture menu: Standard Picture: 25 Color temperature: **Normal** Aspect: Full POS./Sise: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Normal". 2) In Mid color temperature, repeat the procedures 1) to 5) of Cool mode.
3			Picture menu: Standard Picture: 25 Color temperature: **Warm** Aspect: Full POS./Sise: Normal	PANEL W/B G cut off PANEL W/B R,G,B Drive	1) Change color temperature to "Warm". 2) In Low color temperature, repeat the procedures 1) to 5) of Cool mode.
4	· YUV1_525ip · YUV3_625ip				1) Copy the R drive, G drive and B drive data obtained in above steps into YUV1_525ip, YUV3_625ip area.

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Table 1 W/B adjustment values

Color temperature	R	G	B
High	A0-119B	A0-119C	A0-119D
Medium	A0-119E	A0-119F	A0-11A0
Low	A0-11A1	A0-11A2	A0-11A3

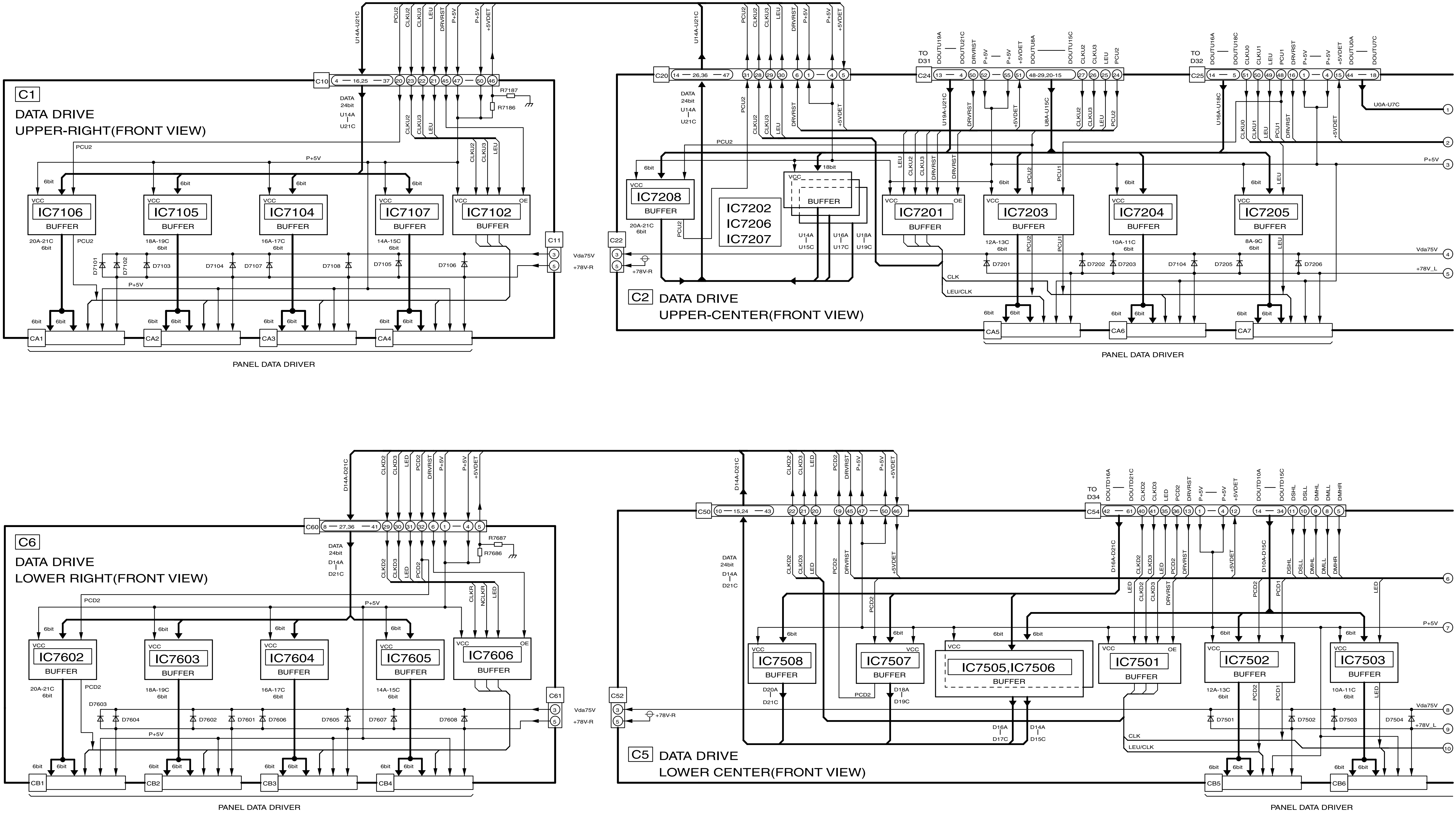
Table 2 Drive data addresses (YUV2_HD)

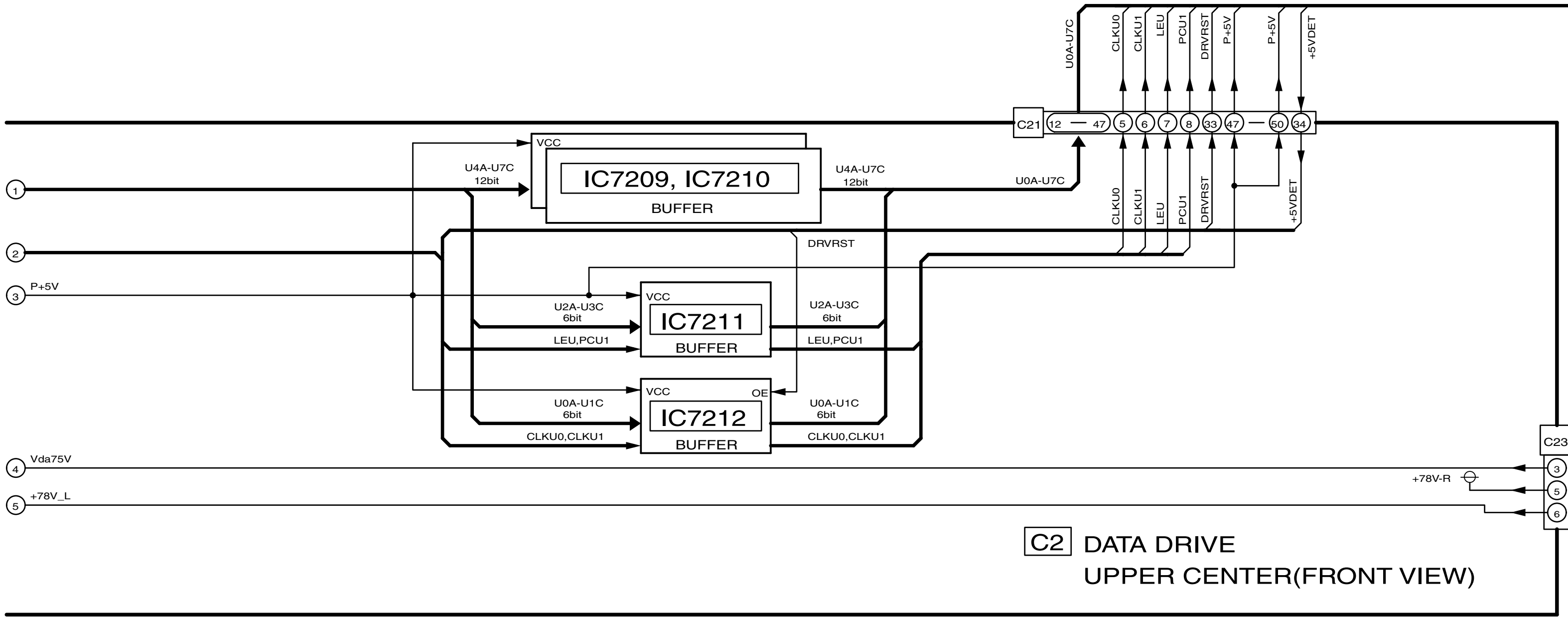
Color temperature	R	G	B
High	A0-1192	A0-1193	A0-1194
Medium	A0-1195	A0-1196	A0-1197
Low	A0-1198	A0-1199	A0-119A

Table 3 Drive data addresses (YUV1_525ip)

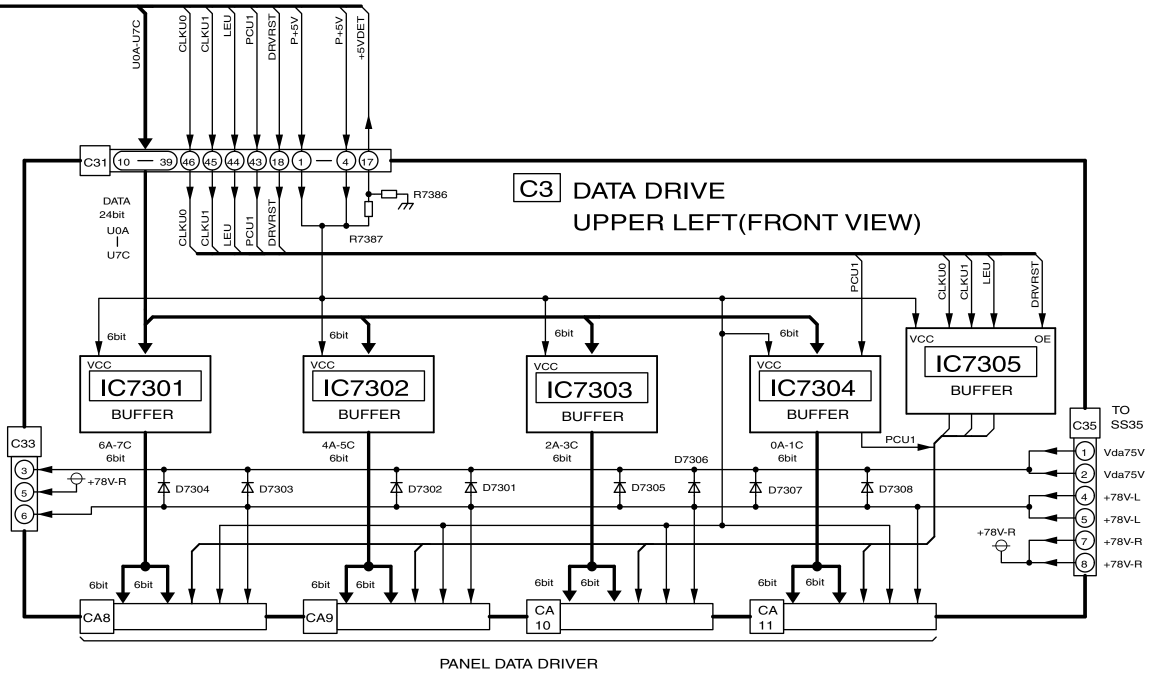
Color temperature	R	G	B
High	A0-11A4	A0-11A5	A0-11A6
Medium	A0-11A7	A0-11A8	A0-11A9
Low	A0-11AA	A0-11AB	A0-11AC

Table 4 Drive data addresses (YUV3_625ip)

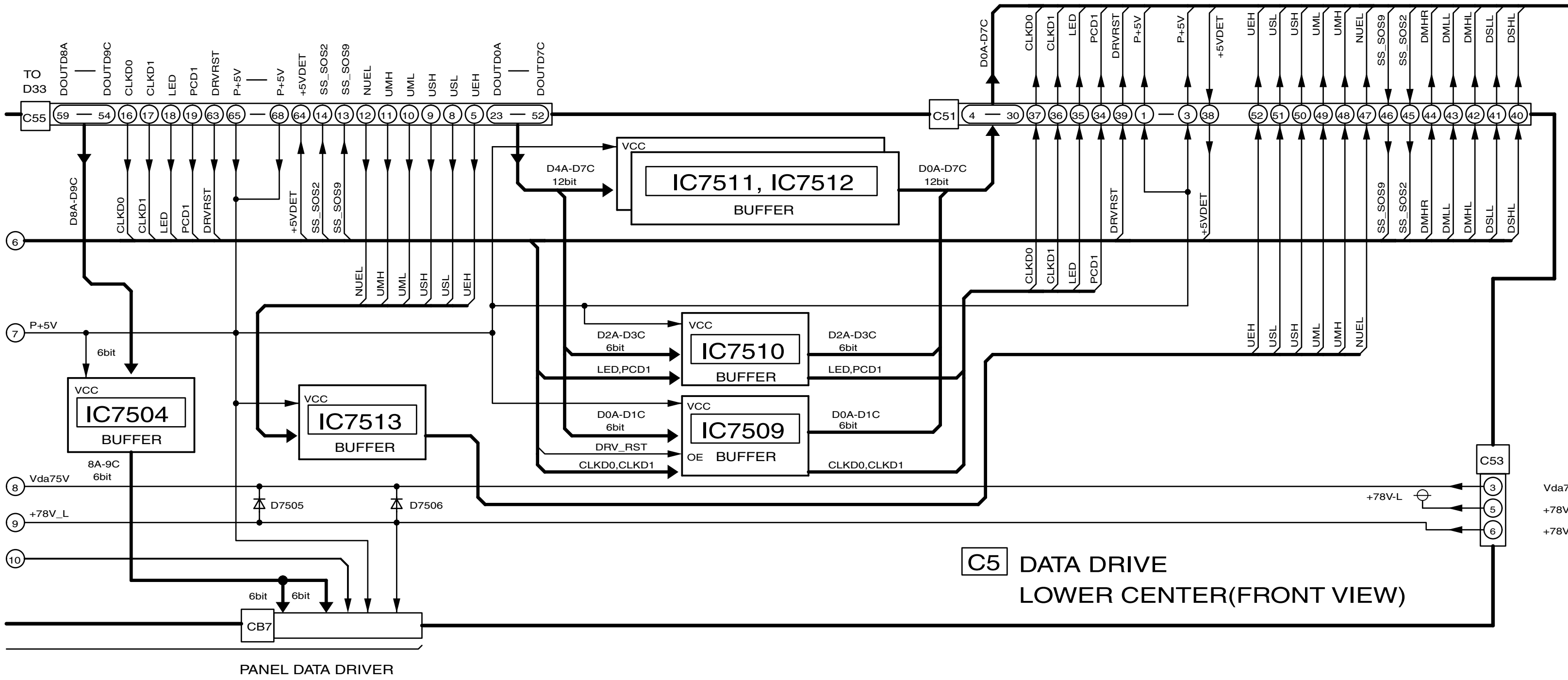

C1
DATA DRIVE
UPPER-RIGHT(FRONT VIEW)
C10
R7187
R7186
DATA 24bit U14A U21C
U14A-U21C
PCU2
CLKU2
CLKU3
LEU
DRVRST
P+5V
+5VDET
P+5V
6bit
VCC
IC7106
BUFFER
IC7105
IC7104
IC7107
IC7102
OE
20A-21C 6bit
18A-19C 6bit
16A-17C 6bit
14A-15C 6bit
C11
Vda75V
+78V-R
D7101
D7102
D7103
D7104
D7107
D7108
D7105
D7106
CA1
CA2
CA3
CA4
PANEL DATA DRIVER
C2
DATA DRIVE
UPPER-CENTER(FRONT VIEW)
C20
C22
C24
C25
TO D31
TO D32
IC7208
IC7202
IC7206
IC7207
18bit
U14A U15C
U16A U17C
U18A U19C
IC7201
IC7203
IC7204
IC7205
12A-13C 6bit
10A-11C 6bit
8A-9C 6bit
DOUTU19A
DOUTU21C
DOUTU8A
DOUTU15C
DOUTU16A
DOUTU18C
DOUTU0A
DOUTU7C
U19A-U21C
U8A-U15C
U16A-U18C
U0A-U7C
CLKU0
CLKU1
PCU1
D7201
D7202
D7203
D7104
D7205
D7206
CLK
LEU/CLK
+78V_L
CA5
CA6
CA7
PANEL DATA DRIVER
C6
DATA DRIVE
LOWER RIGHT(FRONT VIEW)
C60
R7687
R7686
DATA 24bit D14A D21C
D14A-D21C
CLKD2
CLKD3
LED
PCD2
CLKR
NCLKR
IC7602
IC7603
IC7604
IC7605
IC7606
C61
D7603
D7604
D7602
D7601
D7606
D7605
D7607
D7608
CB1
CB2
CB3
CB4
PANEL DATA DRIVER
C5
DATA DRIVE
LOWER CENTER(FRONT VIEW)
C50
C52
C54
TO D34
DOUTD16A
DOUTD21C
DOUTD10A
DOUTD15C
D16A-D21C
D10A-D15C
DSHL
DSLL
DMHL
DMLL
DMHR
PCD1
IC7508
IC7507
IC7505,IC7506
IC7501
IC7502
IC7503
D20A D21C
D18A D19C
D16A D17C
D14A D15C
D7501
D7502
D7503
D7504
CB5
CB6
PANEL DATA DRIVER


IC7209, IC7210
BUFFER
IC7211
BUFFER
IC7212
BUFFER
VCC
OE
C21
C23
U4A-U7C 12bit
U0A-U7C
U2A-U3C 6bit
U0A-U1C 6bit
LEU,PCU1
CLKU0,CLKU1
DRVRST
P+5V
Vda75V
+78V_L
+78V-R
+78V-L
CLKU0
CLKU1
LEU
PCU1
P+5V
+5VDET

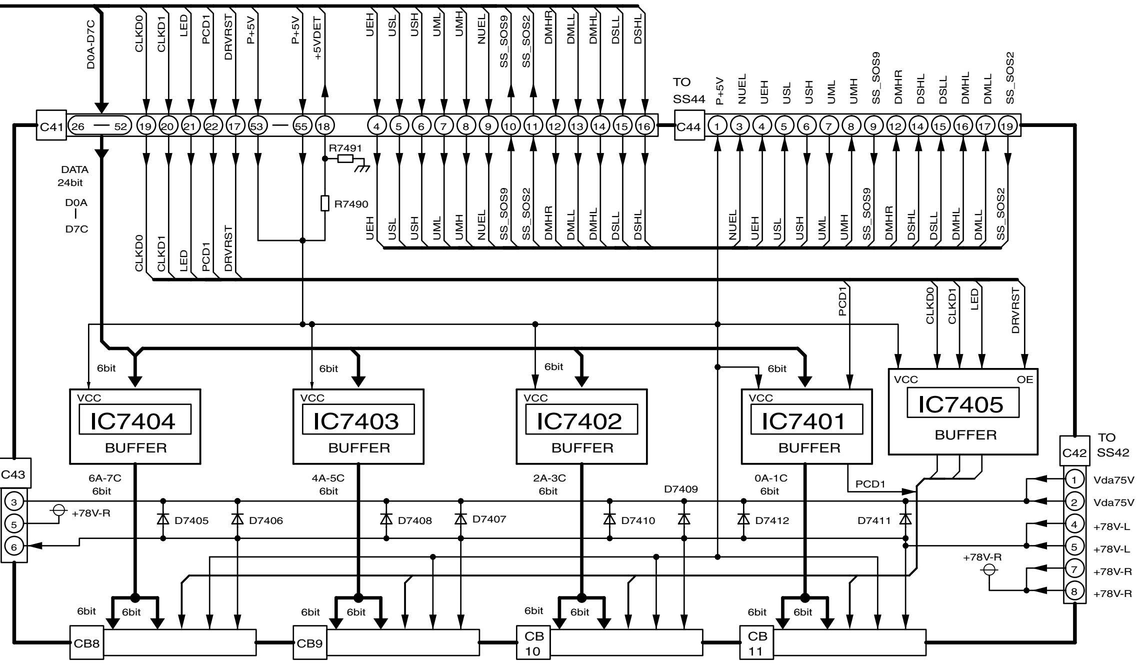
C2 DATA DRIVE
UPPER CENTER(FRONT VIEW)


C31
C33
C35
TO SS35
IC7301
IC7302
IC7303
IC7304
IC7305
BUFFER
VCC
OE
R7386
R7387
DATA 24bit U0A | U7C
6A-7C 6bit
4A-5C 6bit
2A-3C 6bit
0A-1C 6bit
D7301
D7302
D7303
D7304
D7305
D7306
D7307
D7308
CA8
CA9
CA 10
CA 11
6bit
Vda75V
+78V-L
+78V-R
PANEL DATA DRIVER

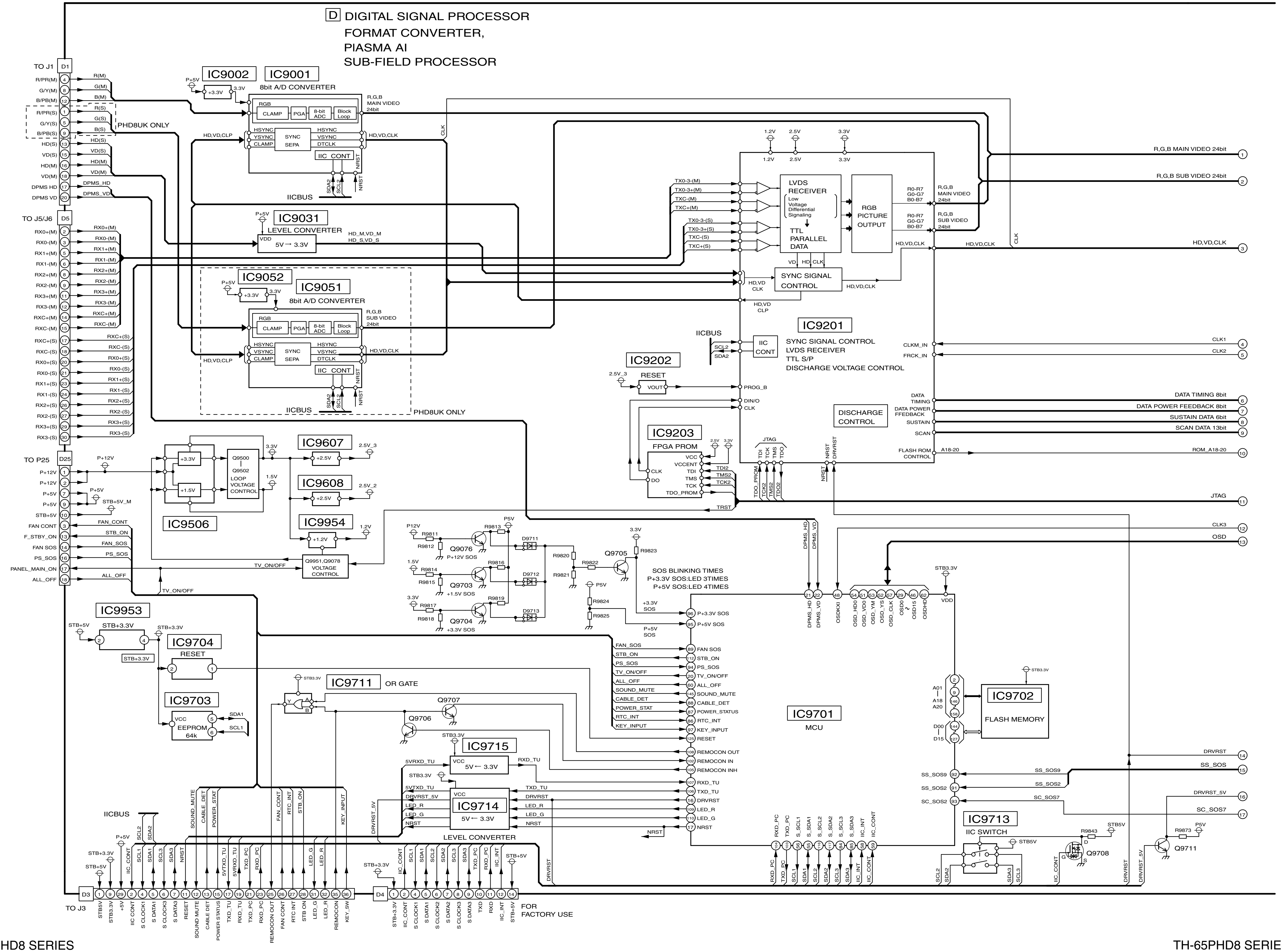
C3 DATA DRIVE
UPPER LEFT(FRONT VIEW)


TO D33
C55
C51
C53
IC7511, IC7512
BUFFER
IC7510
IC7509
IC7504
IC7513
D4A-D7C 12bit
D0A-D7C 12bit
D2A-D3C 6bit
D0A-D1C 6bit
LED,PCD1
DRV_RST
CLKD0,CLKD1
D8A-D9C
8A-9C 6bit
D7505
D7506
CB7
6bit
P+5V
Vda75V
+78V_L
+78V-L
+78V-R
PANEL DATA DRIVER

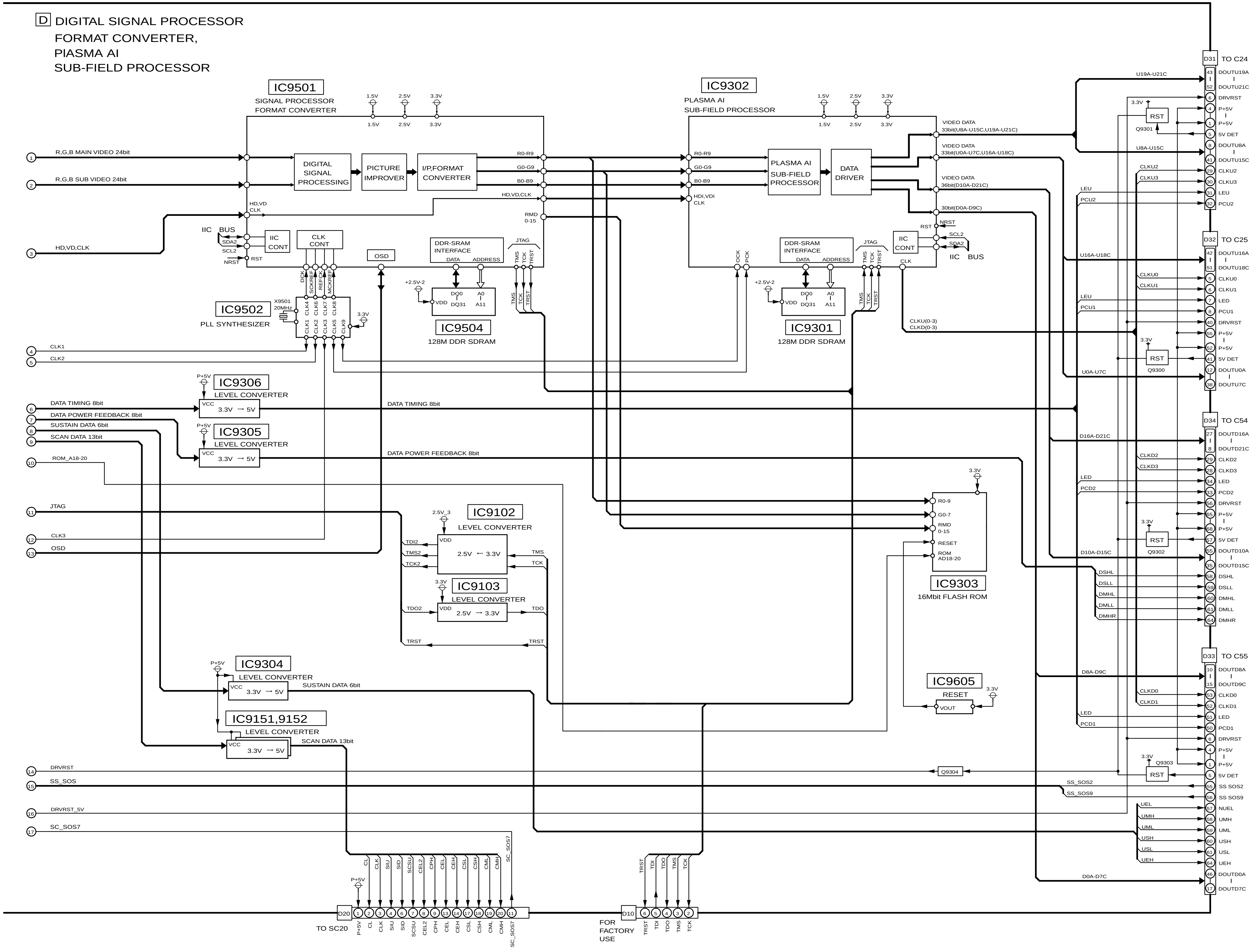
C5 DATA DRIVE
LOWER CENTER(FRONT VIEW)

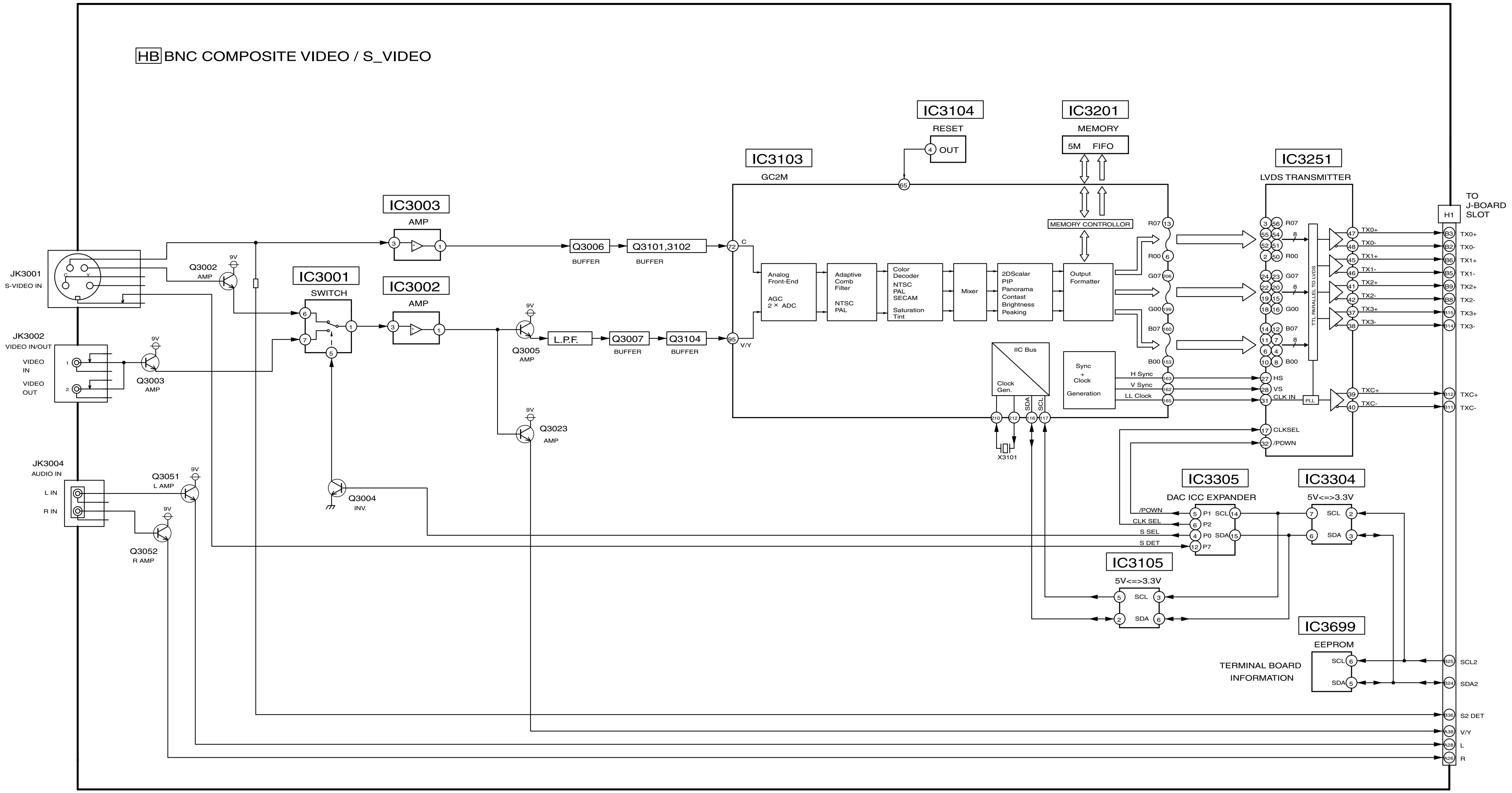

C41
C43
C44
C42
TO SS44
TO SS42
IC7404
IC7403
IC7402
IC7401
IC7405
BUFFER
VCC
OE
R7491
R7490
DATA 24bit D0A | D7C
6A-7C 6bit
4A-5C 6bit
2A-3C 6bit
0A-1C 6bit
D7405
D7406
D7407
D7408
D7409
D7410
D7411
D7412
CB8
CB9
CB 10
CB 11
Vda75V
+78V-L
+78V-R
PANEL DATA DRIVER

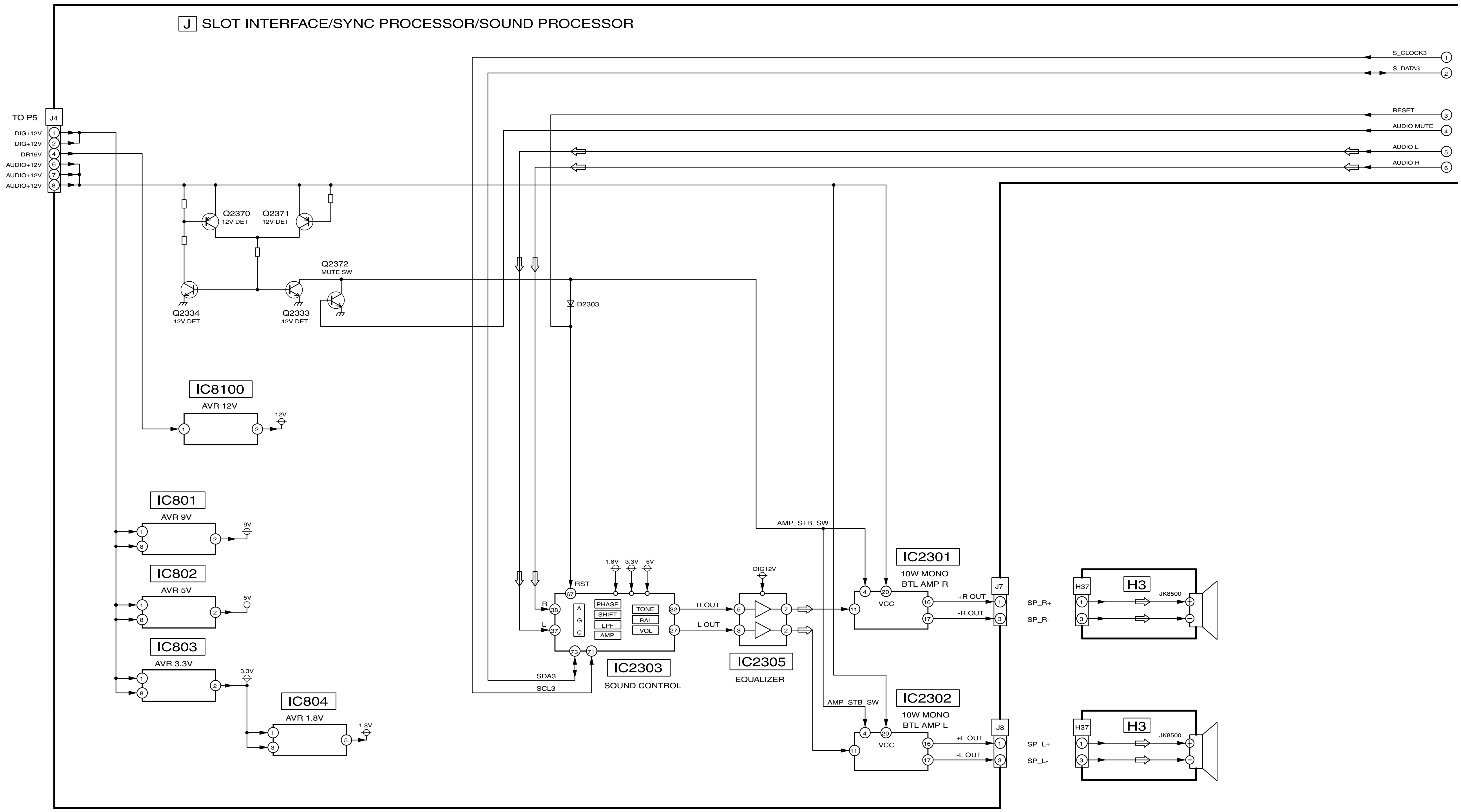
C4 DATA DRIVE
LOWER LEFT(FRONT VIEW)


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER,
PIASMA AI
SUB-FIELD PROCESSOR
TO J1
D1
R/PR(M)
G/Y(M)
B/PB(M)
R/PR(S)
G/Y(S)
B/PB(S)
HD(S)
VD(S)
HD(M)
VD(M)
DPMS HD
DPMS VD
PHD8UK ONLY
IC9002
+3.3V
IC9001
8bit A/D CONVERTER
RGB
CLAMP
PGA
8-bit ADC
Block Loop
HSYNC
VSYNC
SYNC SEPA
DTCLK
IIC CONT
NRST
R,G,B MAIN VIDEO 24bit
HD,VD,CLP
HD,VD,CLK
IICBUS
SDA2
SCL2
TO J5/J6
D5
RX0+(M)
RX0-(M)
RX1+(M)
RX1-(M)
RX2+(M)
RX2-(M)
RX3+(M)
RX3-(M)
RXC+(M)
RXC-(M)
RXC+(S)
RXC-(S)
RX0+(S)
RX0-(S)
RX1+(S)
RX1-(S)
RX2+(S)
RX2-(S)
RX3+(S)
RX3-(S)
IC9031
LEVEL CONVERTER
VDD
5V → 3.3V
HD_M,VD_M
HD_S,VD_S
IC9052
IC9051
8bit A/D CONVERTER
R,G,B SUB VIDEO 24bit
LVDS RECEIVER
Low Voltage Differential Signaling
TTL PARALLEL DATA
RGB PICTURE OUTPUT
R0-R7
G0-G7
B0-B7
R,G,B MAIN VIDEO 24bit
R,G,B SUB VIDEO 24bit
SYNC SIGNAL CONTROL
HD,VD CLK
HD,VD CLP
IC9201
SYNC SIGNAL CONTROL
LVDS RECEIVER
TTL S/P
DISCHARGE VOLTAGE CONTROL
IIC CONT
IC9202
RESET
VOUT
PROG_B
DIN/O
CLK
IC9203
FPGA PROM
VCC
VCCENT
TDI
TMS
TCK
TDO_PROM
JTAG
DISCHARGE CONTROL
CLKM_IN
FRCK_IN
DATA TIMING
DATA POWER FFEEDBACK
SUSTAIN
SCAN
FLASH ROM CONTROL
A18-20
R,G,B MAIN VIDEO 24bit ①
R,G,B SUB VIDEO 24bit ②
HD,VD,CLK ③
CLK1 ④
CLK2 ⑤
DATA TIMING 8bit ⑥
DATA POWER FEEDBACK 8bit ⑦
SUSTAIN DATA 6bit ⑧
SCAN DATA 13bit ⑨
ROM_A18-20 ⑩
JTAG ⑪
CLK3 ⑫
OSD ⑬
DRVRST ⑭
SS_SOS ⑮
DRVRST_5V ⑯
SC_SOS7 ⑰
TO P25
D25
P+12V
P+5V
STB+5V
FAN CONT
F_STBY_ON
FAN SOS
PS_SOS
PANEL_MAIN_ON
ALL_OFF
IC9506
+3.3V
+1.5V
Q9500 | Q9502
LOOP VOLTAGE CONTROL
IC9607
+2.5V
2.5V_3
IC9608
2.5V_2
IC9954
+1.2V
Q9951,Q9078
VOLTAGE CONTROL
TV_ON/OFF
Q9076
P+12V SOS
Q9703
+1.5V SOS
Q9704
+3.3V SOS
D9711
D9712
D9713
Q9705
SOS BLINKING TIMES
P+3.3V SOS:LED 3TIMES
P+5V SOS:LED 4TIMES
IC9953
STB+3.3V
IC9704
RESET
IC9703
EEPROM 64k
SDA1
SCL1
IC9711
OR GATE
Q9707
Q9706
IC9715
5V ← 3.3V
5VRXD_TU
RXD_TU
IC9714
5V ← 3.3V
LEVEL CONVERTER
5VTXD_TU
DRVRST_5V
LED_R
LED_G
NRST
TXD_TU
DRVRST
IC9701
MCU
P+3.3V SOS
P+5V SOS
FAN SOS
STB_ON
PS_SOS
TV_ON/OFF
ALL_OFF
SOUND_MUTE
CABLE_DET
POWER_STATUS
RTC_INT
KEY_INPUT
RESET
REMOCON OUT
REMOCON IN
REMOCON INH
RXD_TU
TXD_TU
DRVRST
LED_R
LED_G
NRST
DPMS_HD
DPMS_VD
OSDKXI
OSD_HD0
OSD_VD0
OSD_YM
OSD_YS
OSD_CLK
OSD0 ~ OSD15
OSDHD
VDD
IC9702
FLASH MEMORY
A01
A18
A20
D00
D15
SS_SOS9
SS_SOS2
SC_SOS2
IC9713
IIC SWITCH
Q9708
Q9711
RXD_PC
TXD_PC
S_SCL1
S_SDA1
S_SCL2
S_SDA2
S_SCL3
S_SDA3
IIC_INT
IIC_CONT
IICBUS
D3
TO J3
STB5V
STB3.3V
+5V
IIC CONT
S CLOCK1
S DATA1
S CLOCK3
S DATA3
RESET
SOUND MUTE
CABLE DET
POWER STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
REMOCON OUT
FAN CONT
RTC INT
STB ON
LED_G
LED_R
REMOCON
KEY_SW
D4
STB+3.3V
IIC_CONT
S CLOCK1
S DATA1
S CLOCK2
S DATA2
S CLOCK3
S DATA3
TXD
RXD
IIC_INT
STB+5V
FOR FACTORY USE

D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER, PIASMA AI SUB-FIELD PROCESSOR

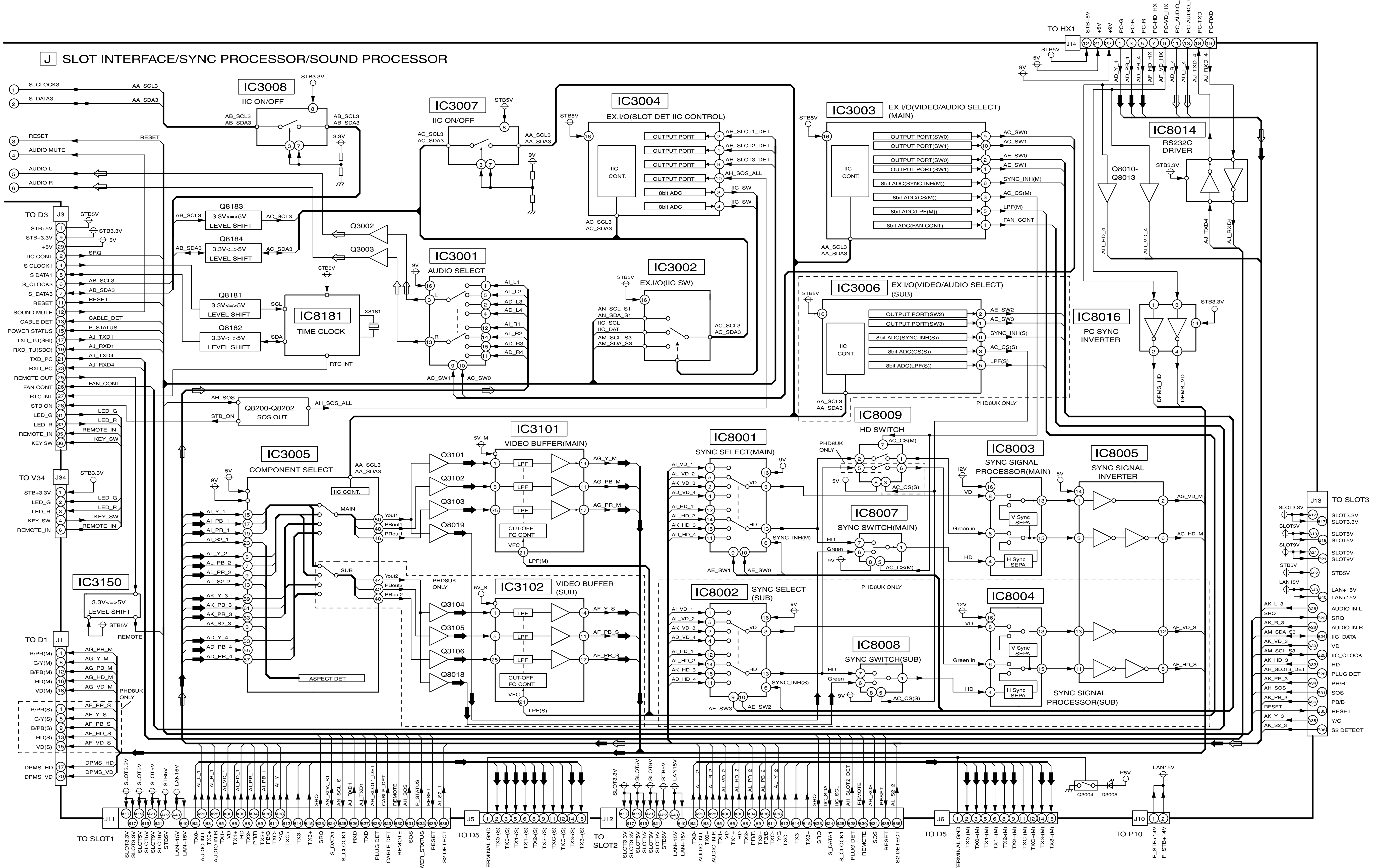

IC9501
SIGNAL PROCESSOR
FORMAT CONVERTER
1.5V
2.5V
3.3V
R,G,B MAIN VIDEO 24bit
R,G,B SUB VIDEO 24bit
HD,VD,CLK
DIGITAL SIGNAL PROCESSING
PICTURE IMPROVER
I/P,FORMAT CONVERTER
R0-R9
G0-G9
B0-B9
HD,VD,CLK
RMD 0-15
IIC BUS
SDA2
SCL2
NRST
RST
IIC CONT
CLK CONT
OSD
DDR-SRAM INTERFACE
DATA
ADDRESS
JTAG
TMS
TCK
TRST
DCK
SCKREF
REFCK
MCKREF
IC9502
PLL SYNTHESIZER
X9501 20MHz
CLK4
CLK6
CLK7
CLK8
CLK1
CLK2
CLK3
CLK5
CLK9
+2.5V-2
VDD
DQ0
DQ31
A0
A11
IC9504
128M DDR SDRAM
IC9302
PLASMA AI
SUB-FIELD PROCESSOR
HDI,VDI
CLK
PLASMA AI SUB-FIELD PROCESSOR
DATA DRIVER
VIDEO DATA 33bit(U8A-U15C,U19A-U21C)
VIDEO DATA 33bit(U0A-U7C,U16A-U18C)
VIDEO DATA 36bit(D10A-D21C)
30bit(D0A-D9C)
OCK
PCK
IC9301
128M DDR SDRAM
CLKU(0-3)
CLKD(0-3)
IC9306
LEVEL CONVERTER
P+5V
VCC
3.3V → 5V
DATA TIMING 8bit
DATA POWER FEEDBACK 8bit
SUSTAIN DATA 6bit
SCAN DATA 13bit
IC9305
LEVEL CONVERTER
ROM_A18-20
JTAG
CLK3
OSD
IC9102
LEVEL CONVERTER
2.5V_3
2.5V ← 3.3V
TDI2
TMS2
TCK2
IC9103
LEVEL CONVERTER
2.5V → 3.3V
TDO2
TDO
IC9303
16Mbit FLASH ROM
R0-9
G0-7
RMD 0-15
RESET
ROM AD18-20
IC9605
RESET
VOUT
IC9304
LEVEL CONVERTER
IC9151,9152
LEVEL CONVERTER
DRVRST
SS_SOS
DRVRST_5V
SC_SOS7
Q9304
D20
TO SC20
P+5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CEH
CSL
CSH
CML
CMH
SC_SOS7
D10
FOR FACTORY USE
TRST
TDI
TDO
TMS
TCK
D31 TO C24
U19A-U21C
DOUTU19A
DOUTU21C
DRVRST
P+5V
5V DET
U8A-U15C
DOUTU8A
DOUTU15C
CLKU2
CLKU3
LEU
PCU2
RST
Q9301
D32 TO C25
U16A-U18C
DOUTU16A
DOUTU18C
CLKU0
CLKU1
PCU1
Q9300
U0A-U7C
DOUTU0A
DOUTU7C
D34 TO C54
D16A-D21C
DOUTD16A
DOUTD21C
CLKD2
CLKD3
LED
PCD2
Q9302
D10A-D15C
DOUTD10A
DOUTD15C
DSHL
DSLL
DMHL
DMLL
DMHR
D33 TO C55
D8A-D9C
DOUTD8A
DOUTD9C
CLKD0
CLKD1
PCD1
Q9303
SS_SOS2
SS_SOS9
SS SOS2
SS SOS9
UEL
UMH
UML
USH
USL
UEH
NUEL
D0A-D7C
DOUTD0A
DOUTD7C


HB BNC COMPOSITE VIDEO / S_VIDEO
JK3001
S-VIDEO IN
C
Y
Q3002
AMP
9V
IC3003
AMP
IC3001
SWITCH
IC3002
AMP
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
Q3003
AMP
Q3006
BUFFER
Q3101,3102
BUFFER
Q3005
AMP
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
Q3023
AMP
Q3004
INV.
JK3004
AUDIO IN
L IN
R IN
Q3051
L AMP
Q3052
R AMP
IC3103
GC2M
C
V/Y
Analog Front-End
AGC
2 × ADC
Adaptive Comb Filter
NTSC
PAL
Color Decoder
NTSC
PAL
SECAM
Saturation
Tint
Mixer
2DScalar
PIP
Panorama
Contast
Brightness
Peaking
Output Formatter
IIC Bus
Clock Gen.
SDA
SCL
Sync + Clock Generation
H Sync
V Sync
LL Clock
X3101
IC3104
RESET
OUT
IC3201
MEMORY
5M FIFO
MEMORY CONTROLLOR
R07
R00
G07
G00
B07
B00
IC3251
LVDS TRANSMITTER
TTL PARALLEL TO LVDS
PLL
HS
VS
CLK IN
CLKSEL
/PDWN
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
H1
TO J-BOARD SLOT
SCL2
SDA2
S2 DET
V/Y
L
R
IC3305
DAC ICC EXPANDER
/POWN
CLK SEL
S SEL
S DET
P1
P2
P0
P7
SCL
SDA
IC3304
5V<=>3.3V
IC3105
5V<=>3.3V
IC3699
EEPROM
TERMINAL BOARD INFORMATION


J SLOT INTERFACE/SYNC PROCESSOR/SOUND PROCESSOR
TO P5
J4
DIG+12V
DIG+12V
DR15V
AUDIO+12V
AUDIO+12V
AUDIO+12V
S_CLOCK3
S_DATA3
RESET
AUDIO MUTE
AUDIO L
AUDIO R
Q2370
12V DET
Q2371
12V DET
Q2372
MUTE SW
Q2334
12V DET
Q2333
12V DET
D2303
IC8100
AVR 12V
12V
IC801
AVR 9V
9V
IC802
AVR 5V
5V
IC803
AVR 3.3V
3.3V
IC804
AVR 1.8V
1.8V
AMP_STB_SW
1.8V
3.3V
5V
RST
R
L
A
G
C
PHASE
SHIFT
LPF
AMP
TONE
BAL
VOL
SDA3
SCL3
IC2303
SOUND CONTROL
R OUT
L OUT
DIG12V
IC2305
EQUALIZER
IC2301
10W MONO
BTL AMP R
VCC
+R OUT
-R OUT
IC2302
10W MONO
BTL AMP L
+L OUT
-L OUT
J7
J8
SP_R+
SP_R-
SP_L+
SP_L-
H37
H3
JK8500

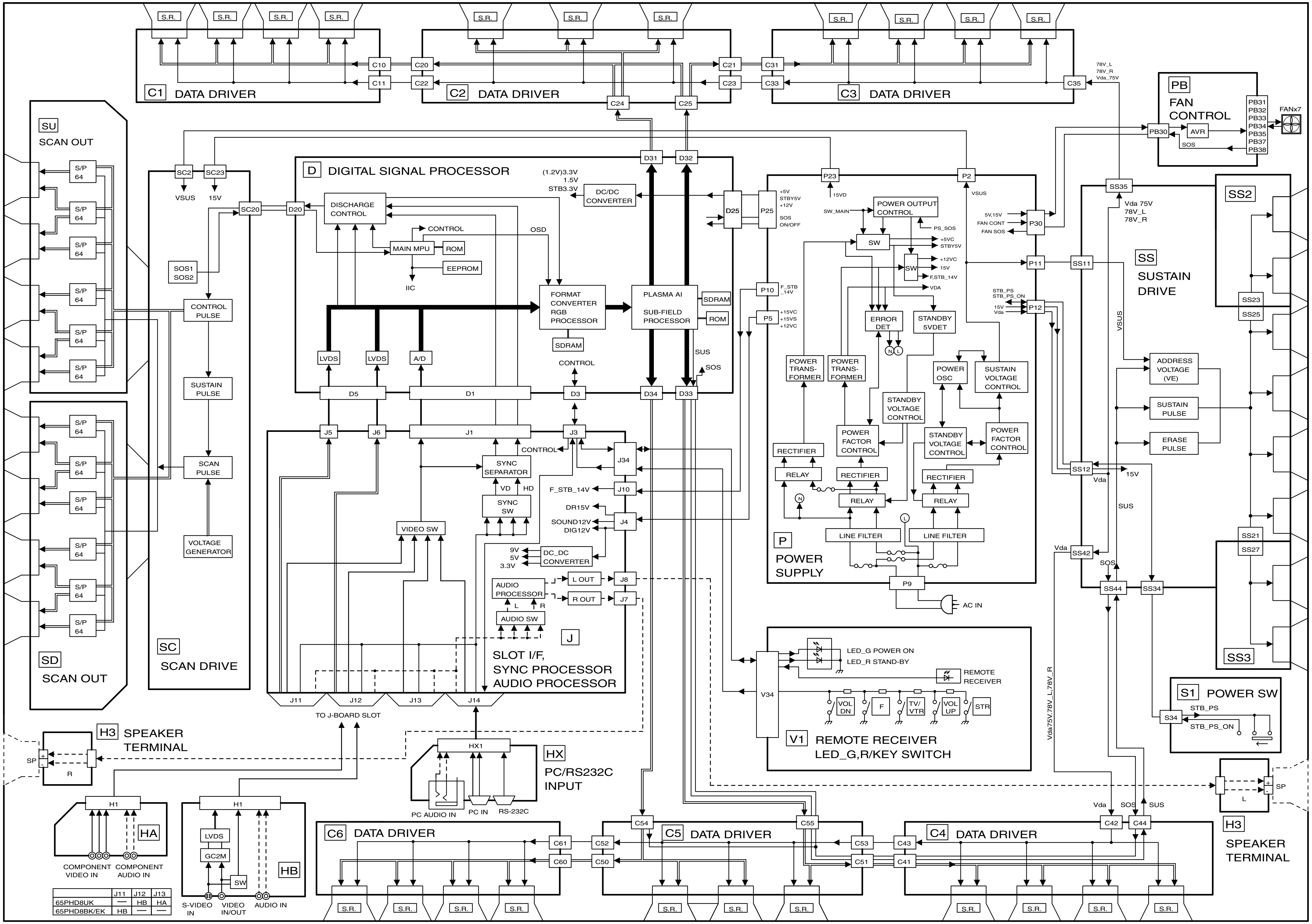
TH-65PHD8 SERIES
J-Board (1 of 2) and H3-Board Block Diagram

J SLOT INTERFACE/SYNC PROCESSOR/SOUND PROCESSOR

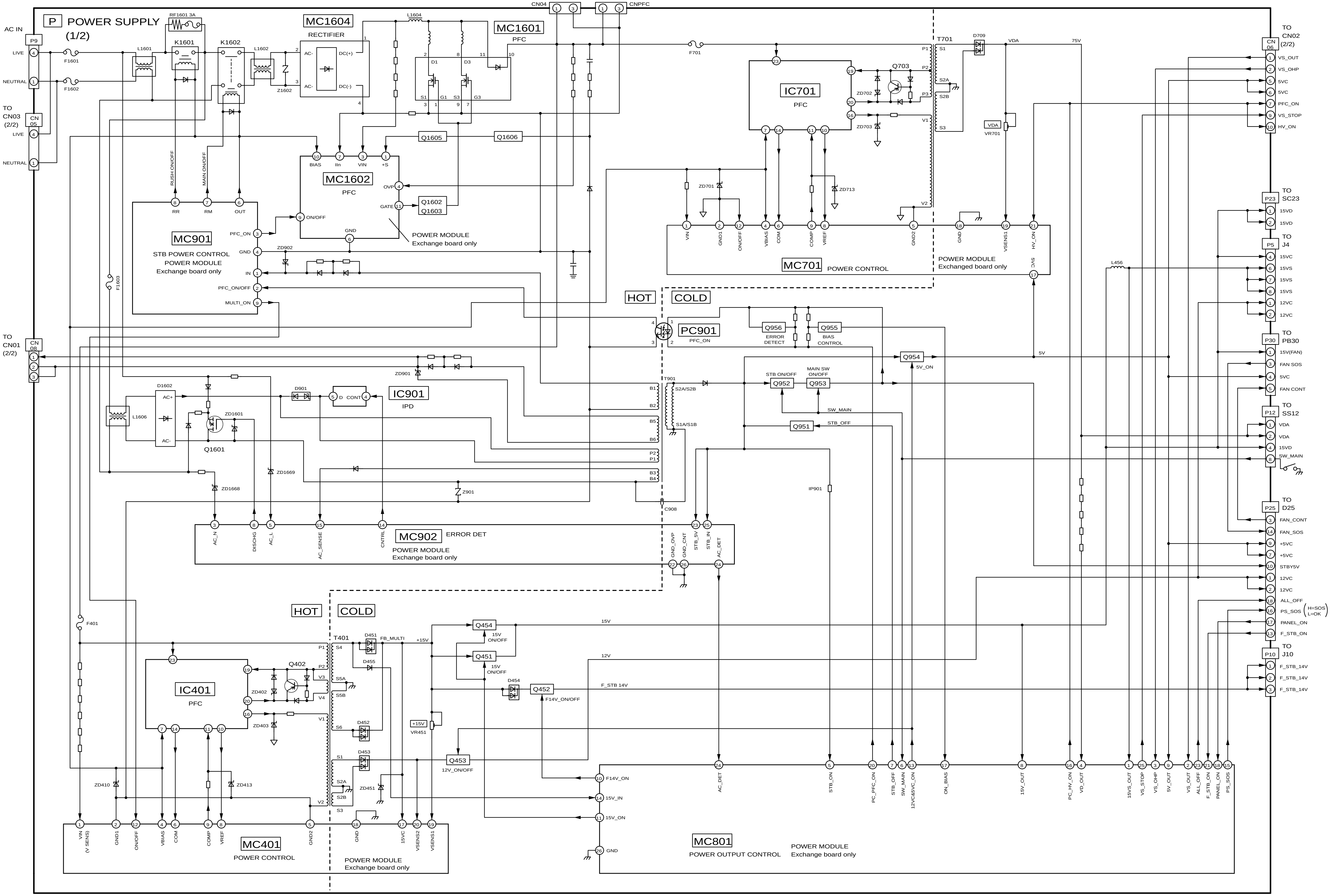

J
SLOT INTERFACE/SYNC PROCESSOR/SOUND PROCESSOR
TO HX1
J14
STB+5V
+5V
+9V
PC-G
PC-B
PC-R
PC-HD_HX
PC-VD_HX
PC-AUDIO_IN_R
PC-AUDIO_IN_L
PC-TXD
PC-RXD
AD_Y_4
AD_PB_4
AD_PR_4
AF_HD_HX
AF_VD_HX
AD_R_4
AD_L_4
AJ_TXD_4
AJ_RXD_4
IC3008
IIC ON/OFF
AB_SCL3
AB_SDA3
IC3007
IIC ON/OFF
AC_SCL3
AC_SDA3
AA_SCL3
AA_SDA3
IC3004
EX.I/O(SLOT DET IIC CONTROL)
OUTPUT PORT
8bit ADC
IIC CONT.
AH_SLOT1_DET
AH_SLOT2_DET
AH_SLOT3_DET
AH_SOS_ALL
IIC_SW
IC3003
EX I/O(VIDEO/AUDIO SELECT) (MAIN)
OUTPUT PORT(SW0)
OUTPUT PORT(SW1)
8bit ADC(SYNC INH(M))
8bit ADC(CS(M))
8bit ADC(LPF(M))
8bit ADC(FAN CONT)
AC_SW0
AC_SW1
AE_SW0
AE_SW1
SYNC_INH(M)
AC_CS(M)
LPF(M)
FAN_CONT
IC8014
RS232C DRIVER
Q8010-Q8013
AD_HD_4
AD_VD_4
AJ_TXD4
AJ_RXD4
S_CLOCK3
S_DATA3
RESET
AUDIO MUTE
AUDIO L
AUDIO R
TO D3
J3
STB+5V
STB+3.3V
+5V
IIC CONT
S CLOCK1
S DATA1
S_CLOCK3
S_DATA3
RESET
SOUND MUTE
CABLE DET
POWER STATUS
TXD_TU(SBI)
RXD_TU(SBO)
TXD_PC
RXD_PC
REMOTE OUT
FAN CONT
RTC INT
STB ON
LED_G
LED_R
REMOTE_IN
KEY SW
Q8183
3.3V<=>5V LEVEL SHIFT
Q8184
Q8181
Q8182
IC8181
TIME CLOCK
X8181
RTC INT
Q3002
Q3003
IC3001
AUDIO SELECT
AI_L1
AI_L2
AD_L3
AD_L4
AI_R1
AI_R2
AD_R3
AD_R4
AC_SW1
AC_SW0
IC3002
EX.I/O(IIC SW)
AN_SCL_S1
AN_SDA_S1
IIC_SCL
IIC_DAT
AM_SCL_S3
AM_SDA_S3
IC3006
EX I/O(VIDEO/AUDIO SELECT) (SUB)
OUTPUT PORT(SW2)
OUTPUT PORT(SW3)
8bit ADC(SYNC INH(S))
8bit ADC(CS(S))
8bit ADC(LPF(S))
AE_SW2
AE_SW3
SYNC_INH(S)
AC_CS(S)
LPF(S)
PHD8UK ONLY
IC8016
PC SYNC INVERTER
DPMS_HD
DPMS_VD
Q8200-Q8202
SOS OUT
AH_SOS
AH_SOS_ALL
STB_ON
TO V34
J34
IC8009
HD SWITCH
IC3101
VIDEO BUFFER(MAIN)
Q3101
Q3102
Q3103
Q8019
LPF
CUT-OFF FQ CONT
VFC
AG_Y_M
AG_PB_M
AG_PR_M
IC3005
COMPONENT SELECT
IIC CONT.
MAIN
SUB
AI_Y_1
AI_PB_1
AI_PR_1
AI_S2_1
AL_Y_2
AL_PB_2
AL_PR_2
AL_S2_2
AK_Y_3
AK_PB_3
AK_PR_3
AK_S2_3
AD_Y_4
AD_PB_4
AD_PR_4
ASPECT DET
Yout1
PBout1
PRout1
Yout2
PBout2
PRout2
IC3102
VIDEO BUFFER (SUB)
Q3104
Q3105
Q3106
Q8018
AF_Y_S
AF_PB_S
AF_PR_S
IC8001
SYNC SELECT(MAIN)
AI_VD_1
AL_VD_2
AK_VD_3
AD_VD_4
AI_HD_1
AL_HD_2
AK_HD_3
AD_HD_4
VD
HD
AE_SW1
AE_SW0
IC8007
SYNC SWITCH(MAIN)
Green
IC8002
SYNC SELECT (SUB)
AE_SW3
AE_SW2
IC8008
SYNC SWITCH(SUB)
IC8003
SYNC SIGNAL PROCESSOR(MAIN)
V Sync SEPA
H Sync SEPA
Green in
IC8005
SYNC SIGNAL INVERTER
AG_VD_M
AG_HD_M
IC8004
SYNC SIGNAL PROCESSOR(SUB)
AF_VD_S
AF_HD_S
J13
TO SLOT3
SLOT3.3V
SLOT5V
SLOT9V
STB5V
LAN15V
LAN+15V
AUDIO IN L
SRQ
AUDIO IN R
IIC_DATA
IIC_CLOCK
PLUG DET
PR/R
SOS
PB/B
RESET
Y/G
S2 DETECT
IC3150
3.3V<=>5V LEVEL SHIFT
REMOTE
TO D1
J1
R/PR(M)
G/Y(M)
B/PB(M)
HD(M)
VD(M)
R/PR(S)
G/Y(S)
B/PB(S)
HD(S)
VD(S)
DPMS_HD
DPMS_VD
J11
TO SLOT1
J5
TO D5
TERMINAL GND
TX0-(S)
TX0+(S)
TX1-(S)
TX1+(S)
TX2-(S)
TX2+(S)
TXC-(S)
TXC+(S)
TX3-(S)
TX3+(S)
J12
TO SLOT2
J6
TO D5
TX0-(M)
TX0+(M)
TX1-(M)
TX1+(M)
TX2-(M)
TX2+(M)
TXC-(M)
TXC+(M)
TX3-(M)
TX3+(M)
Q3004
D3005
P5V
J10
TO P10
F_STB+14V

TH-65PHD8 SERIES
J-Board (2 of 2) Block Diagram

TH-65PHD8 SERIES
J-Board (2 of 2) Block Diagram

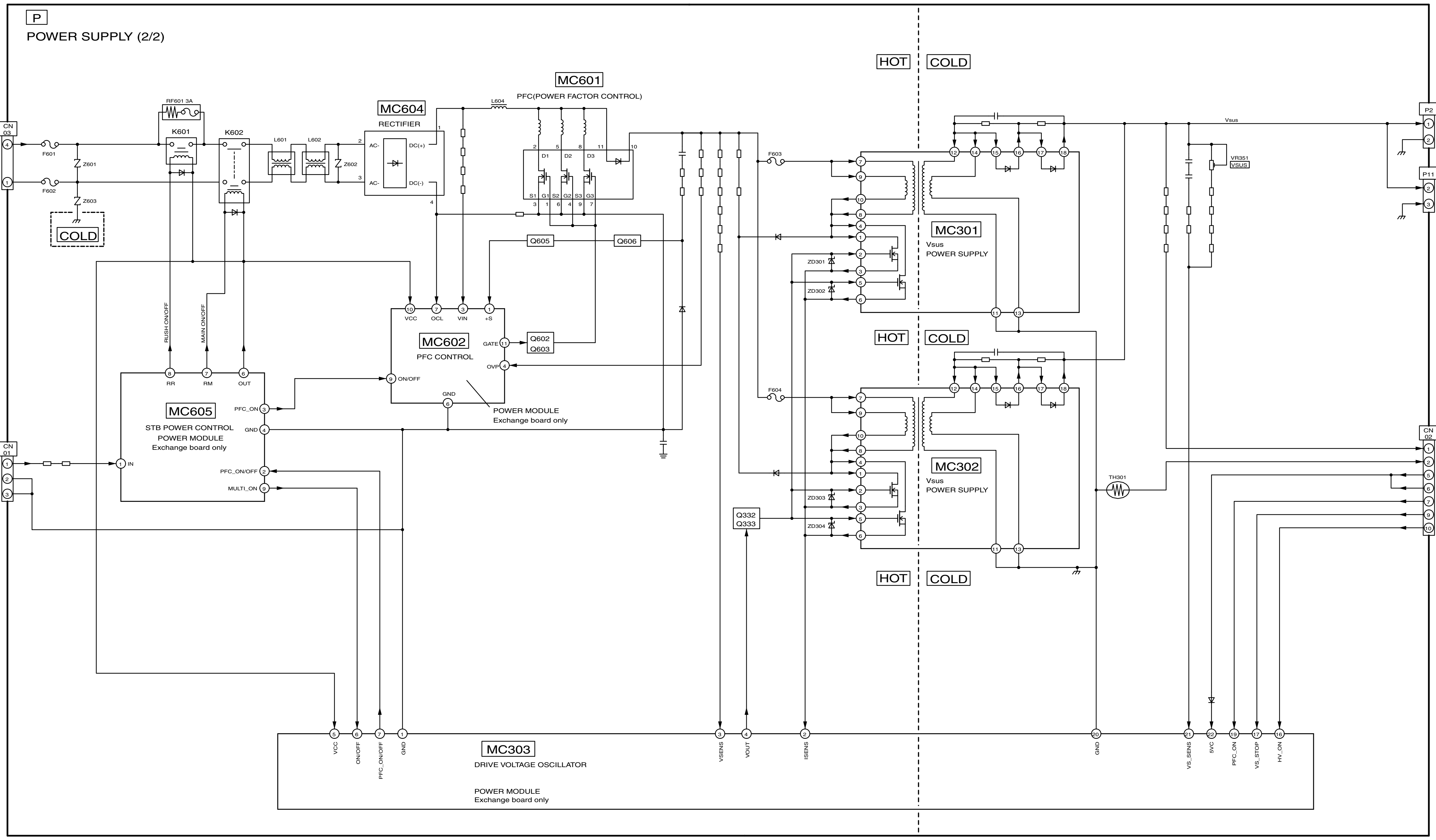

C1 DATA DRIVER
C2 DATA DRIVER
C3 DATA DRIVER
C4 DATA DRIVER
C5 DATA DRIVER
C6 DATA DRIVER
S.R.
SU SCAN OUT
SD SCAN OUT
S/P 64
SC SCAN DRIVE
SC2
SC23
SC20
VSUS
15V
SOS1
SOS2
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
D DIGITAL SIGNAL PROCESSOR
DISCHARGE CONTROL
MAIN MPU
ROM
EEPROM
IIC
CONTROL
OSD
(1.2V)3.3V
1.5V
STB3.3V
DC/DC CONVERTER
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
SDRAM
LVDS
A/D
SUS
SOS
D1
D3
D5
D20
D25
D31
D32
D33
D34
J SLOT I/F, SYNC PROCESSOR AUDIO PROCESSOR
SYNC SEPARATOR
SYNC SW
VD
HD
VIDEO SW
F_STB_14V
DR15V
SOUND12V
DIG12V
DC_DC CONVERTER
9V
5V
3.3V
AUDIO PROCESSOR
AUDIO SW
L OUT
R OUT
J1
J3
J4
J5
J6
J7
J8
J10
J11
J12
J13
J14
J34
TO J-BOARD SLOT
HX PC/RS232C INPUT
HX1
PC AUDIO IN
PC IN
RS-232C
H3 SPEAKER TERMINAL
SP
R
L
HA
COMPONENT VIDEO IN
COMPONENT AUDIO IN
HB
GC2M
SW
S-VIDEO IN
VIDEO IN/OUT
AUDIO IN
H1
P POWER SUPPLY
POWER OUTPUT CONTROL
SW_MAIN
PS_SOS
+5VC
STBY5V
+12VC
15V
F.STB_14V
VDA
ERROR DET
STANDBY 5VDET
POWER TRANS-FORMER
STANDBY VOLTAGE CONTROL
POWER OSC
SUSTAIN VOLTAGE CONTROL
POWER FACTOR CONTROL
RECTIFIER
RELAY
LINE FILTER
AC IN
P2
P5
P9
P10
P11
P12
P23
P25
P30
15VD
+5V
STBY5V
+12V
SOS
ON/OFF
+15VC
+15VS
+12VC
F_STB _14V
5V,15V
FAN CONT
FAN SOS
STB_PS
STB_PS_ON
Vda
PB FAN CONTROL
PB30
AVR
PB31
PB32
PB33
PB34
PB35
PB37
PB38
FANx7
78V_L
78V_R
Vda_75V
SS SUSTAIN DRIVE
SS2
SS3
SS11
SS12
SS21
SS23
SS25
SS27
SS34
SS35
SS42
SS44
Vda 75V
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
V1 REMOTE RECEIVER LED_G,R/KEY SWITCH
V34
LED_G POWER ON
LED_R STAND-BY
REMOTE RECEIVER
VOL DN
F
TV/ VTR
VOL UP
STR
S1 POWER SW
S34
Vda75V,78V_L,78V_R
C10
C11
C20
C21
C22
C23
C24
C25
C31
C33
C35
C41
C42
C43
C44
C50
C51
C52
C53
C54
C55
C60
C61

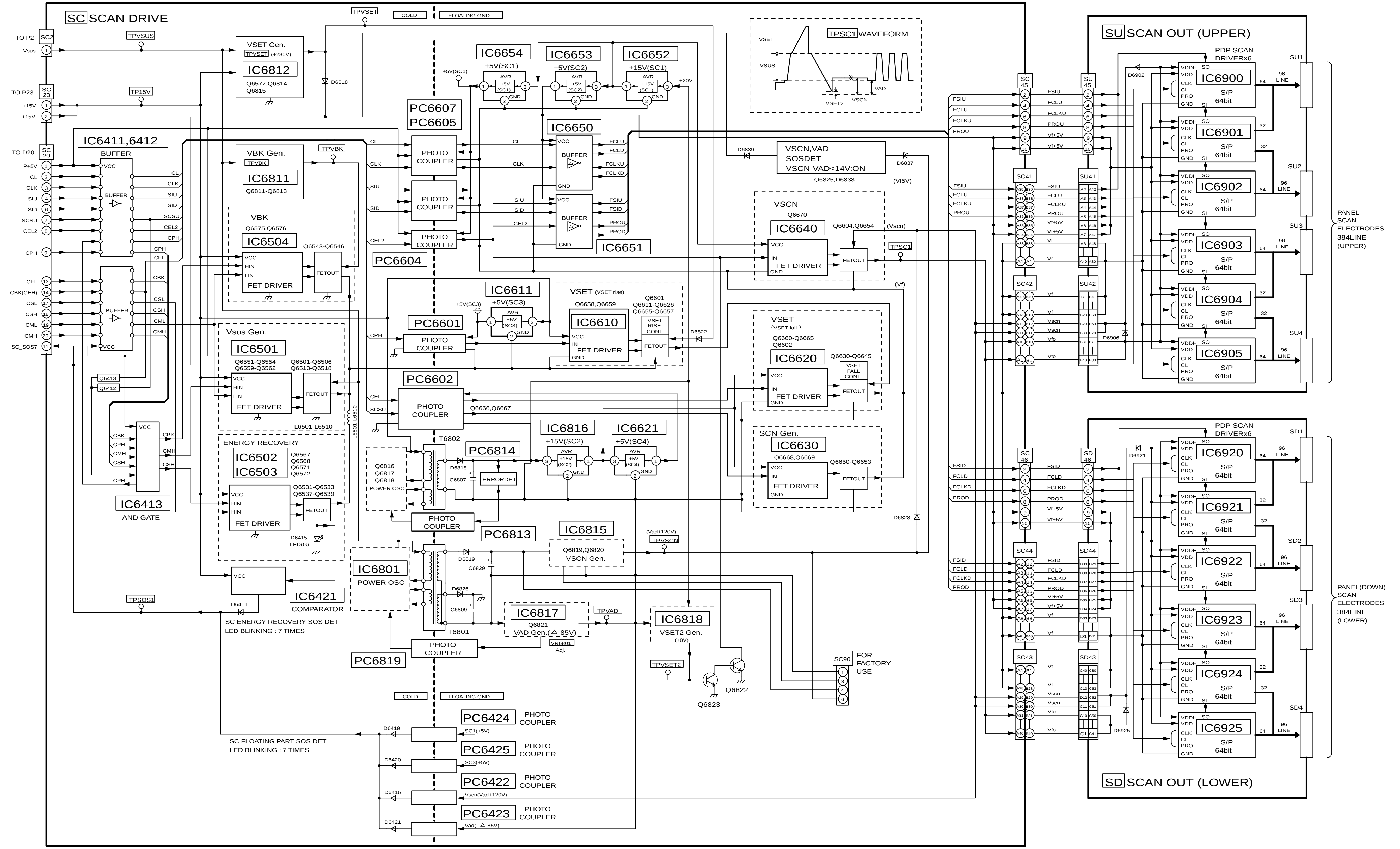
	J11	J12	J13
65PHD8UK	—	HB	HA
65PHD8BK/EK	HB	—	—


P POWER SUPPLY
(1/2)
AC IN
P9
LIVE
NEUTRAL
F1601
F1602
RF1601 3A
L1601
K1601
K1602
L1602
Z1602
MC1604
RECTIFIER
AC-
DC(+)
DC(-)
L1604
MC1601
PFC
D1
D3
S1
G1
S3
G3
CN04
CNPFC
F701
T701
D709
VDA
75V
P1
P2
P3
S1
S2A
S2B
S3
V1
V2
IC701
PFC
Q703
ZD702
ZD703
ZD701
ZD713
VR701
MC701
POWER CONTROL
VIN
GND1
ON/OFF
VBIAS
COM
COMP
VREF
GND2
GND
VSENS1
HV_ON
5VC
POWER MODULE
Exchanged board only
TO CN03 (2/2)
CN 05
TO CN01 (2/2)
CN 08
Q1605
Q1606
MC1602
PFC
BIAS
IIn
VIN
+S
OVP
GATE
Q1602
Q1603
ON/OFF
POWER MODULE
Exchange board only
RUSH ON/OFF
MAIN ON/OFF
RR
RM
OUT
MC901
STB POWER CONTROL
POWER MODULE
Exchange board only
PFC_ON
GND
IN
PFC_ON/OFF
MULTI_ON
ZD902
F1603
HOT
COLD
PC901
PFC_ON
Q956
ERROR DETECT
Q955
BIAS CONTROL
Q954
5V_ON
5V
ZD901
D1602
AC+
AC-
L1606
ZD1601
Q1601
D901
IC901
IPD
D
CONT
T901
S2A/S2B
S1A/S1B
B1
B2
B5
B6
P2
P1
B3
B4
STB ON/OFF
Q952
MAIN SW ON/OFF
Q953
SW_MAIN
Q951
STB_OFF
ZD1669
ZD1668
Z901
C908
IP901
MC902
ERROR DET
POWER MODULE
Exchange board only
AC_N
DISCHG
AC_L
AC_SENSE
CNTRL
GND_OVP
GND_CNT
STB_5V
STB_IN
AC_DET
F401
T401
D451
FB_MULTI
D455
+15V
S4
S5A
S5B
S6
S1
S2A
S2B
S3
P1
P2
V3
V4
V1
V2
IC401
PFC
Q402
ZD402
ZD403
ZD410
ZD413
D452
D453
ZD451
Q454
15V ON/OFF
Q451
15V ON/OFF
D454
Q452
F14V_ON/OFF
Q453
12V_ON/OFF
+15V
VR451
15V
12V
F_STB 14V
MC401
POWER CONTROL
VIN (V SENS)
GND1
ON/OFF
VBIAS
COM
COMP
VREF
GND2
GND
15VC
VSENS2
VSENS1
POWER MODULE
Exchange board only
MC801
POWER OUTPUT CONTROL
POWER MODULE
Exchange board only
F14V_ON
15V_IN
15V_ON
GND
AC_DET
STB_ON
PC_PFC_ON
STB_OFF
SW_MAIN
12VC&5VC_ON
ON_BIAS
15V_OUT
PC_HV_ON
VD_OUT
15VS_OUT
VS_STOP
VS_OHP
5V_OUT
VS_OUT
ALL_OFF
F_STB_ON
PANEL_ON
PS_SOS
TO CN02 (2/2)
CN 06
VS_OUT
VS_OHP
5VC
5VC
PFC_ON
VS_STOP
HV_ON
TO SC23
P23
15VD
15VD
TO J4
P5
15VC
15VS
15VS
15VS
12VC
12VC
L456
TO PB30
P30
15V(FAN)
FAN SOS
5VC
FAN CONT
TO SS12
P12
VDA
VDA
15VD
SW_MAIN
TO D25
P25
FAN_CONT
FAN_SOS
+5VC
+5VC
STBY5V
12VC
12VC
ALL_OFF
PS_SOS
H=SOS
L=OK
PANEL_ON
F_STB_ON
TO J10
P10
F_STB_14V
F_STB_14V
F_STB_14V

TH-65PHD8 SERIES
P-Board (1 of 2) Block Diagram

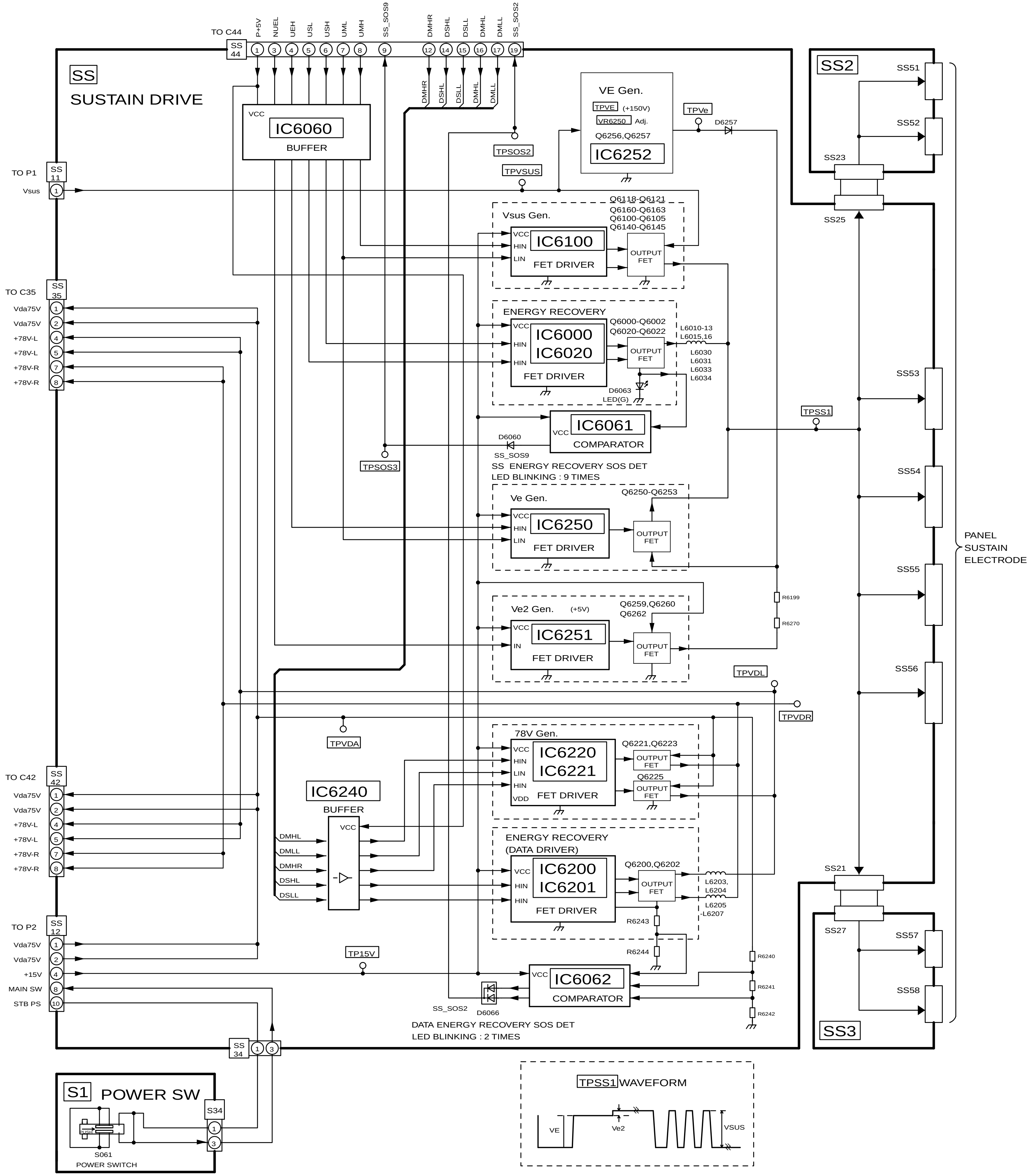
TH-65PHD8 SERIES
P-Board (1 of 2) Block Diagram


P
POWER SUPPLY (2/2)
TO CN05 (1/2)
CN 03
LIVE
NEUTRAL
F601
F602
Z601
Z603
COLD
RF601 3A
K601
K602
L601
L602
Z602
MC604
RECTIFIER
AC-
AC-
DC(+)
DC(-)
L604
MC601
PFC(POWER FACTOR CONTROL)
D1
D2
D3
S1 G1 S2 G2 S3 G3
Q605
Q606
MC602
PFC CONTROL
VCC
OCL
VIN
+S
GATE
OVP
ON/OFF
GND
Q602
Q603
POWER MODULE
Exchange board only
RUSH ON/OFF
MAIN ON/OFF
MC605
STB POWER CONTROL
POWER MODULE
Exchange board only
RR
RM
OUT
PFC_ON
GND
IN
PFC_ON/OFF
MULTI_ON
TO CN08 (1/2)
CN 01
HOT
COLD
F603
F604
ZD301
ZD302
ZD303
ZD304
MC301
Vsus
POWER SUPPLY
MC302
Vsus
POWER SUPPLY
Q332
Q333
Vsus
VR351
VSUS
TH301
TO SC2
P2
VSUS
GND
TO SS11
P11
VSUS
GND
TO CN06 (1/2)
CN 02
VS_OUT
VS_OHP
5VC
5VC
PFC_ON
VS_STOP
HV_ON
MC303
DRIVE VOLTAGE OSCILLATOR
POWER MODULE
Exchange board only
VCC
ON/OFF
PFC_ON/OFF
GND
VSENS
VOUT
ISENS
GND
VS_SENS
5VC
PFC_ON
VS_STOP
HV_ON


SC SCAN DRIVE
TPVSET
COLD
FLOATING GND
TO P2
SC2
Vsus
TPVSUS
VSET Gen.
TPVSET (+230V)
IC6812
Q6577,Q6814
Q6815
D6518
TO P23
SC23
TP15V
+15V
+15V
TO D20
SC20
P+5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CBK(CEH)
CSL
CSH
CML
CMH
SC_SOS7
IC6411,6412
BUFFER
VCC
VBK Gen.
TPVBK
IC6811
Q6811-Q6813
VBK
Q6575,Q6576
IC6504
Q6543-Q6546
HIN
LIN
FET DRIVER
FETOUT
Vsus Gen.
IC6501
Q6551-Q6554
Q6559-Q6562
Q6501-Q6506
Q6513-Q6518
L6501-L6510
Q6413
Q6412
CBK
CPH
CMH
CSH
IC6413
AND GATE
ENERGY RECOVERY
IC6502
IC6503
Q6567
Q6568
Q6571
Q6572
Q6531-Q6533
Q6537-Q6539
D6415
LED(G)
IC6421
COMPARATOR
TPSOS1
D6411
SC ENERGY RECOVERY SOS DET
LED BLINKING : 7 TIMES
PC6607
PC6605
PHOTO COUPLER
PC6604
IC6654
IC6653
IC6652
+5V(SC1)
+5V(SC2)
+15V(SC1)
AVR
GND
+20V
IC6650
IC6651
FCLU
FCLD
FCLKU
FCLKD
FSIU
FSID
PROU
PROD
TPSC1 WAVEFORM
VSET
VSUS
VSET2
VSCN
VAD
D6839
VSCN,VAD
SOSDET
VSCN-VAD<14V:ON
Q6825,D6838
D6837
(Vf5V)
VSCN
Q6670
IC6640
Q6604,Q6654
(Vscn)
TPSC1
(Vf)
IC6611
+5V(SC3)
PC6601
VSET (VSET rise)
Q6658,Q6659
Q6601
Q6611-Q6626
Q6655-Q6657
IC6610
VSET RISE CONT.
D6822
VSET (VSET fall)
Q6660-Q6665
Q6602
IC6620
Q6630-Q6645
VSET FALL CONT.
PC6602
CEL
SCSU
Q6666,Q6667
T6802
PC6814
IC6816
+15V(SC2)
IC6621
+5V(SC4)
Q6816
Q6817
Q6818
POWER OSC
D6818
C6807
ERRORDET
SCN Gen.
IC6630
Q6668,Q6669
Q6650-Q6653
PC6813
IC6815
(Vad+120V)
TPVSCN
Q6819,Q6820
VSCN Gen.
D6828
IC6801
POWER OSC
D6819
C6829
D6826
C6809
T6801
IC6817
Q6821
VAD Gen.(△ 85V)
TPVAD
VR6801
Adj.
IC6818
VSET2 Gen.
(+8V)
TPVSET2
Q6823
Q6822
SC90
FOR FACTORY USE
PC6819
PC6424
PC6425
PC6422
PC6423
D6419
D6420
D6416
D6421
SC1(+5V)
SC3(+5V)
Vscn(Vad+120V)
Vad(△ 85V)
SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES
SC45
SU45
SC41
SU41
SC42
SU42
SC46
SD46
SC44
SD44
SC43
SD43
Vf+5V
Vf
Vscn
Vfo
D6906
D6925
SU SCAN OUT (UPPER)
PDP SCAN DRIVERx6
D6902
IC6900
IC6901
IC6902
IC6903
IC6904
IC6905
VDDH
VDD
SO
SI
CLK
PRO
S/P
64bit
64
32
96 LINE
SU1
SU2
SU3
SU4
PANEL SCAN ELECTRODES 384LINE (UPPER)
SD SCAN OUT (LOWER)
D6921
IC6920
IC6921
IC6922
IC6923
IC6924
IC6925
SD1
SD2
SD3
SD4
PANEL(DOWN) SCAN ELECTRODES 384LINE (LOWER)

TH-65PHD8 SERIES
SC, SU and SD-Board Block Diagram

TH-65PHD8 SERIES
SC, SU and SD-Board Block Diagram

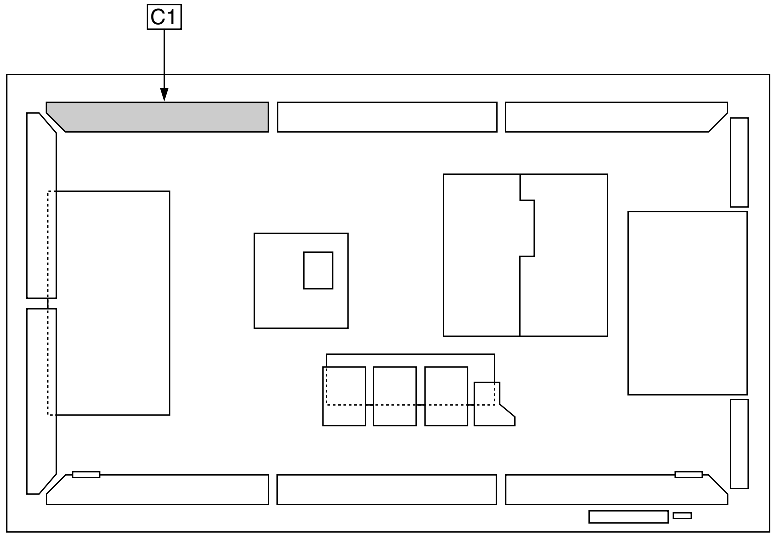

SS
SUSTAIN DRIVE
TO C44
SS 44
P+5V
NUEL
UEH
USL
USH
UML
UMH
SS_SOS9
DMHR
DSHL
DSLL
DMHL
DMLL
SS_SOS2
1 3 4 5 6 7 8 9 12 14 15 16 17 19
VCC
IC6060
BUFFER
VE Gen.
TPVE (+150V)
VR6250 Adj.
Q6256,Q6257
IC6252
TPVe
D6257
TPSOS2
TPVSUS
TO P1
SS 11
Vsus
Q6118-Q6121
Q6160-Q6163
Q6100-Q6105
Q6140-Q6145
Vsus Gen.
VCC
HIN
LIN
IC6100
FET DRIVER
OUTPUT FET
TO C35
SS 35
Vda75V
Vda75V
+78V-L
+78V-L
+78V-R
+78V-R
ENERGY RECOVERY
IC6000
IC6020
Q6000-Q6002
Q6020-Q6022
L6010-13
L6015,16
L6030
L6031
L6033
L6034
D6063
LED(G)
IC6061
COMPARATOR
D6060
SS_SOS9
TPSOS3
SS ENERGY RECOVERY SOS DET
LED BLINKING : 9 TIMES
TPSS1
Ve Gen.
Q6250-Q6253
IC6250
Ve2 Gen.
(+5V)
Q6259,Q6260
Q6262
IC6251
IN
R6199
R6270
TPVDL
TPVDR
TPVDA
78V Gen.
Q6221,Q6223
IC6220
IC6221
Q6225
VDD
IC6240
BUFFER
DMHL
DMLL
DMHR
DSHL
DSLL
TO C42
SS 42
ENERGY RECOVERY
(DATA DRIVER)
Q6200,Q6202
IC6200
IC6201
L6203,
L6204
L6205
-L6207
R6243
R6244
R6240
R6241
R6242
TO P2
SS 12
Vda75V
Vda75V
+15V
MAIN SW
STB PS
1 2 4 8 10
TP15V
IC6062
COMPARATOR
D6066
SS_SOS2
DATA ENERGY RECOVERY SOS DET
LED BLINKING : 2 TIMES
SS 34
S1
POWER SW
S34
S061
POWER SWITCH
SS2
SS51
SS52
SS23
SS25
SS53
SS54
SS55
SS56
SS21
SS27
SS57
SS58
SS3
PANEL
SUSTAIN
ELECTRODE
TPSS1 WAVEFORM
VE
Ve2
VSUS

TH-65PHD8 SERIES
SS, S1, SS2 and SS3-Board Block Diagram

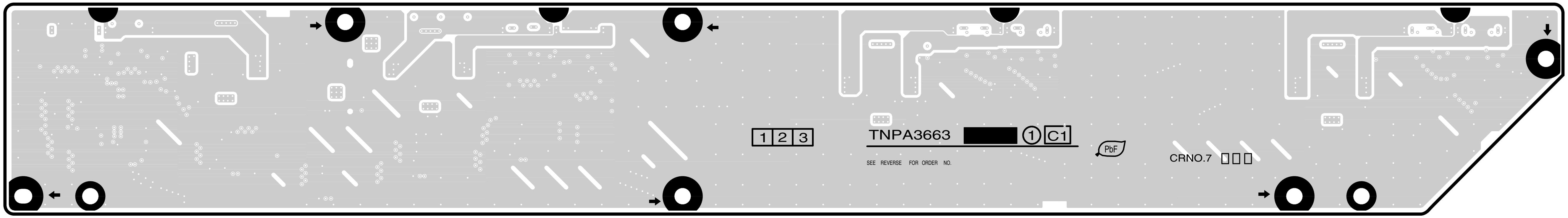
TH-65PHD8 SERIES
SS, S1, SS2 and SS3-Board Block Diagram

Parts Location

C1-BOARD	
IC	
IC7102	I-2
IC7104	G-2
IC7105	G-2
IC7106	H-1
IC7107	H-2

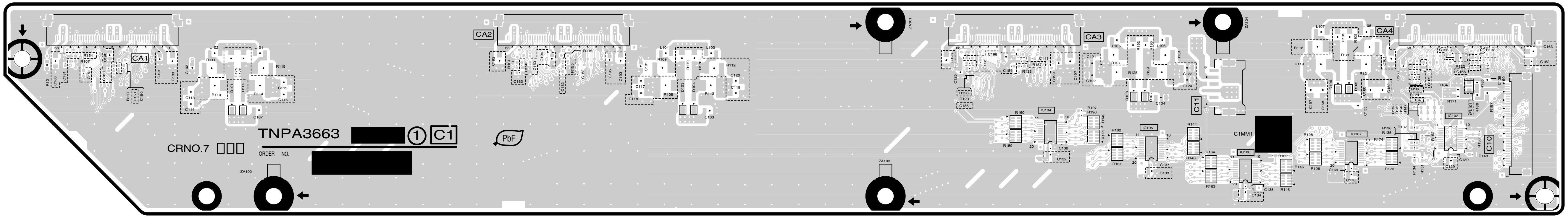


C1-BOARD (FOIL SIDE)
TNPA3663



1 2 3
TNPA3663
①
C1
SEE REVERSE FOR ORDER NO.
PbF
CRNO.7

C1-BOARD (COMPONENT SIDE)
TNPA3663



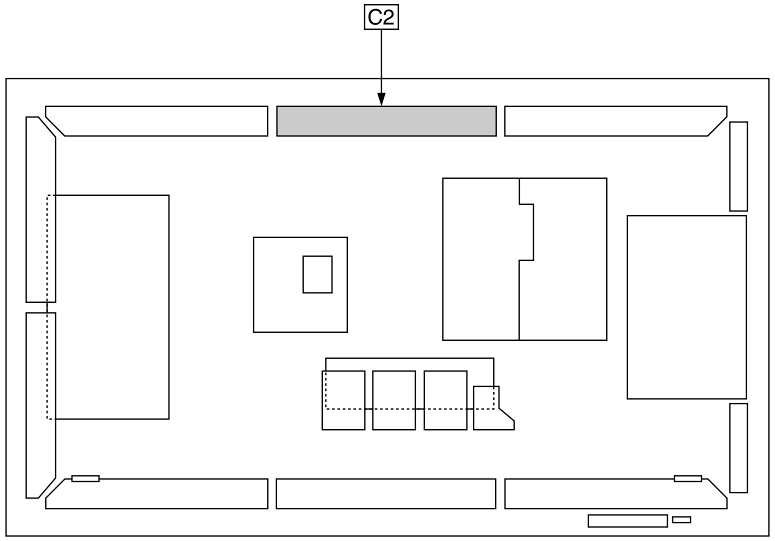
CA1
CA2
CA3
CA4
TNPA3663
①
C1
CRNO.7
ORDER NO.
PbF
ZA101
ZA102
ZA103
ZA104
C11
C10
C1MM1
IC104
IC105
IC106
IC107
IC100

6
5
4
3
2
1

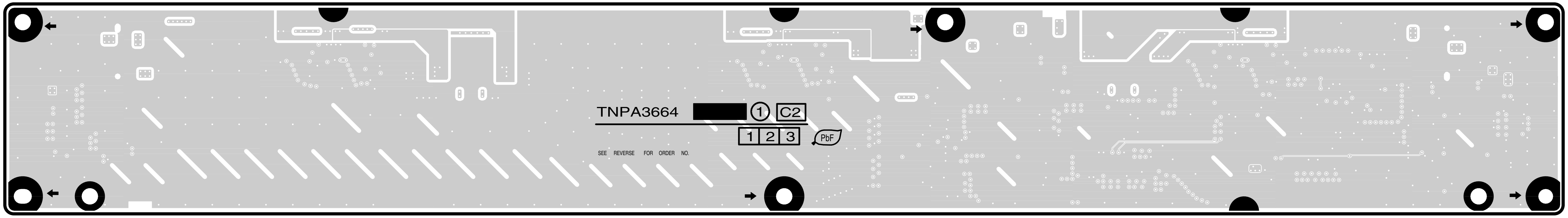
A B C D E F G H I

Parts Location

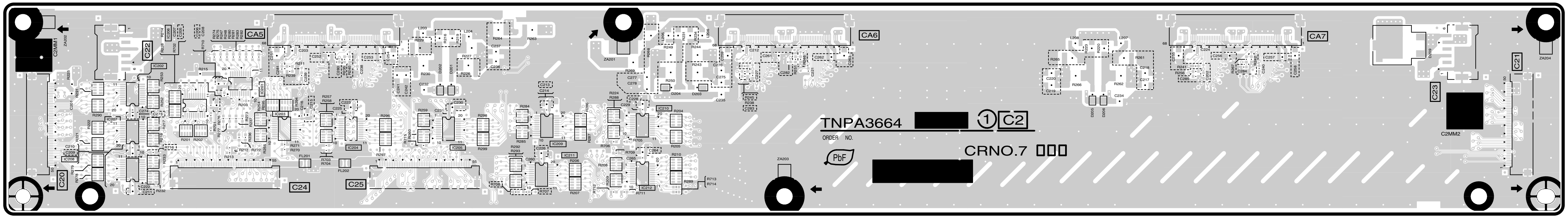
C2-BOARD	
IC	
IC7201	B-2
IC7202	B-2
IC7203	B-2
IC7204	C-2
IC7205	C-2
IC7206	B-2
IC7207	A-2
IC7208	A-1
IC7209	D-2
IC7210	D-2
IC7211	D-1
IC7212	D-1



C2-BOARD (FOIL SIDE)
TNPA3664


TNPA3664
①
C2
1 2 3
PbF
SEE REVERSE FOR ORDER NO.

C2-BOARD (COMPONENT SIDE)
TNPA3664


C2MM1
C22
CA5
CA6
CA7
C20
C24
C25
C21
C23
C2MM2
TNPA3664
①
C2
PbF
ORDER NO.
CRNO.7

6

5

4

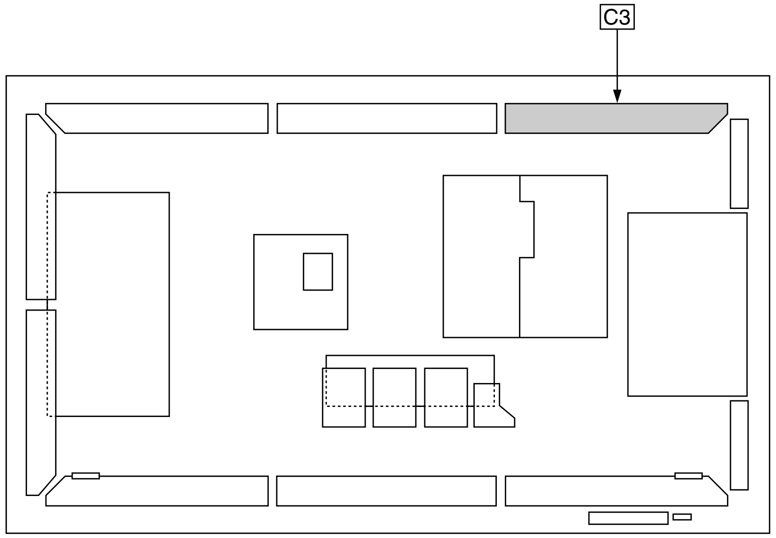
3

2

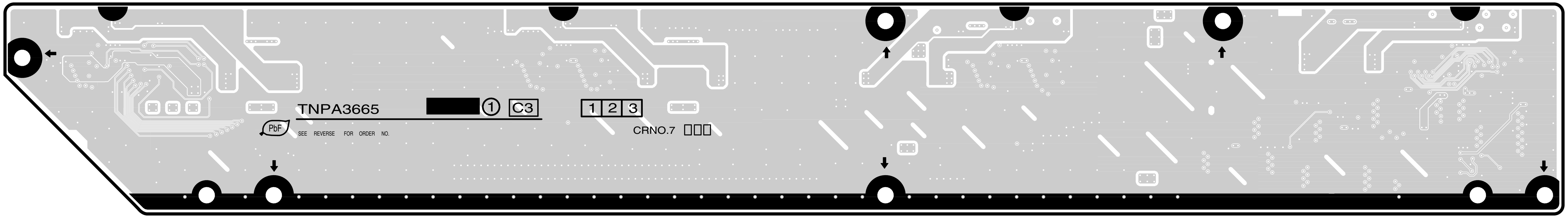
1

Parts Location

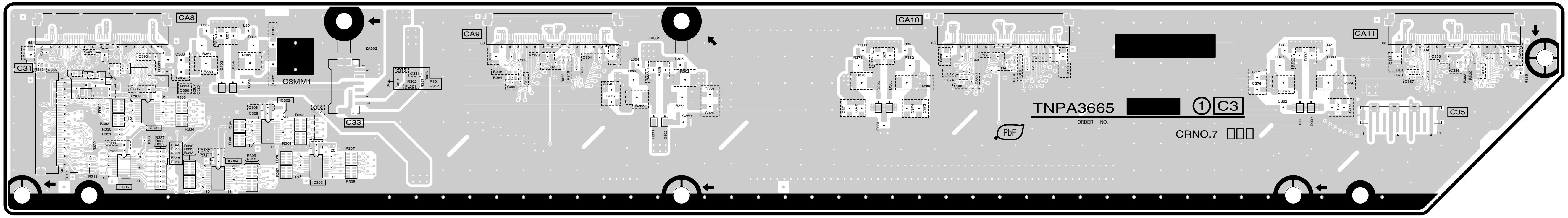
C3-BOARD	
IC	
IC7301	B-2
IC7302	B-2
IC7303	B-1
IC7304	B-1
IC7305	A-1



C3-BOARD (FOIL SIDE)
TNPA3665


TNPA3665
①
C3
1 2 3
PbF
SEE REVERSE FOR ORDER NO.
CRNO.7

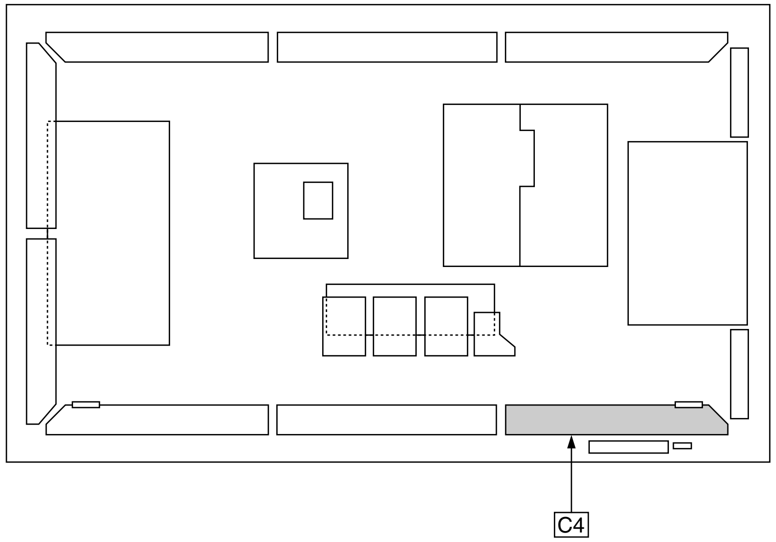
C3-BOARD (COMPONENT SIDE)
TNPA3665


CA8
CA9
CA10
CA11
C31
C33
C35
C3MM1
ZA302
ZA301
IC301
IC302
IC303
IC304
IC305
TNPA3665
①
C3
ORDER NO.
PbF
CRNO.7

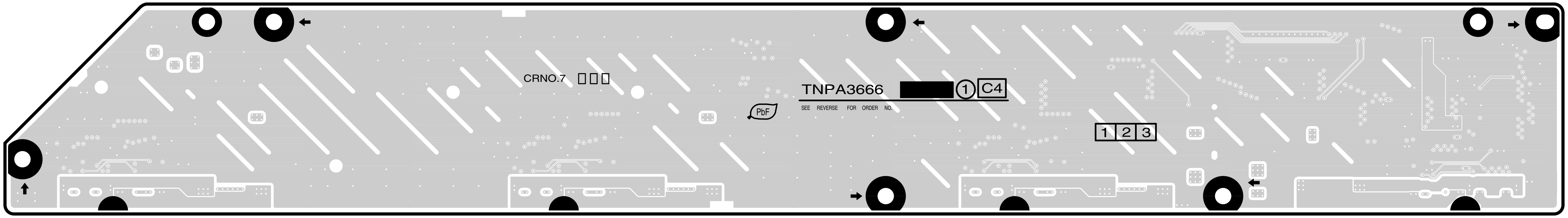
A B C D E F G H I

Parts Location

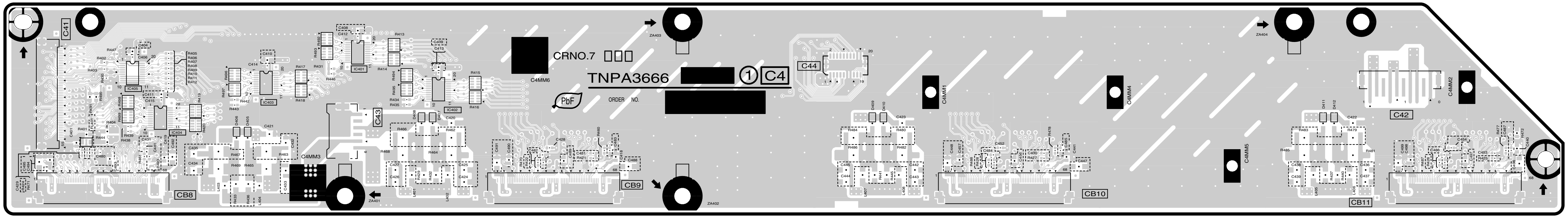
C4-BOARD	
IC	
IC7401	C-2
IC7402	C-2
IC7403	B-2
IC7404	B-2
IC7405	A-2



C4-BOARD (FOIL SIDE)
TNPA3666

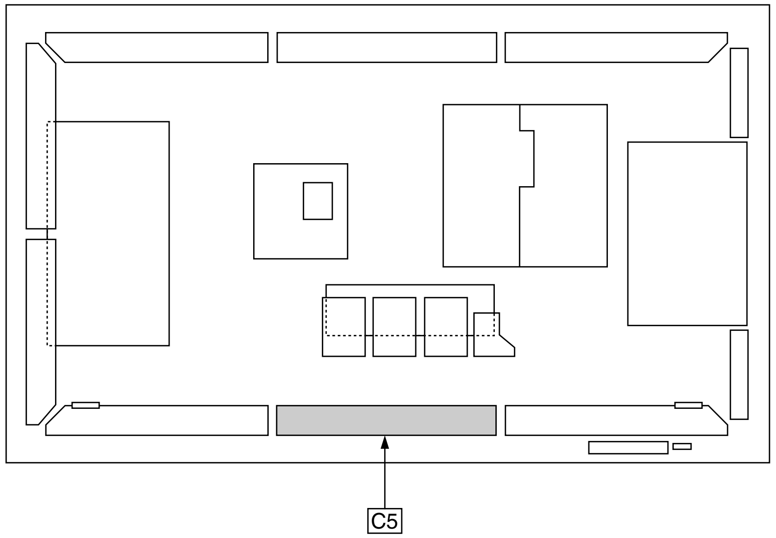

CRNO.7
TNPA3666
①
C4
SEE REVERSE FOR ORDER NO.
PbF
1 2 3

C4-BOARD (COMPONENT SIDE)
TNPA3666

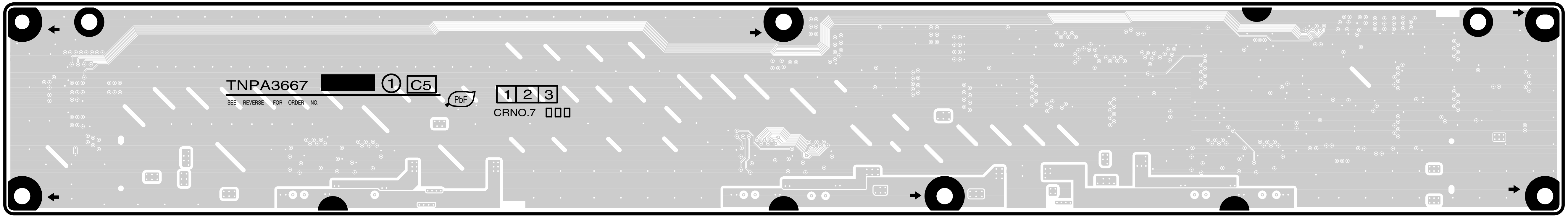

C41
CRNO.7
TNPA3666
①
C4
ORDER NO.
PbF
C44
C4MM6
C43
C4MM3
C4MM1
C4MM4
C4MM5
C4MM2
C42
ZA401
ZA402
ZA403
ZA404
IC401
IC402
IC403
IC404
IC405
CB8
CB9
CB10
CB11

Parts Location

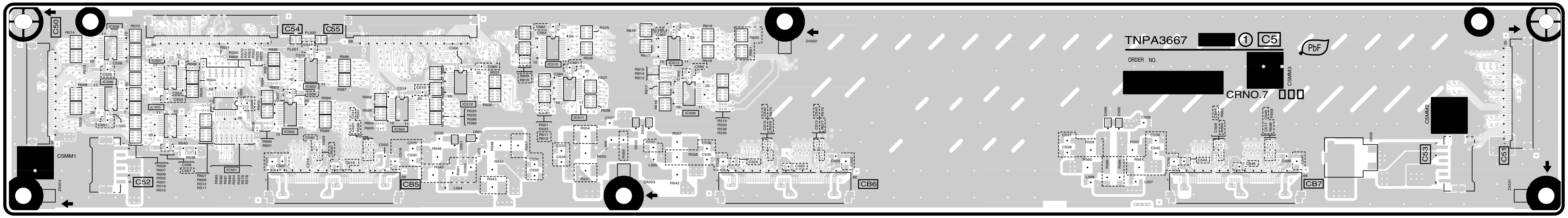
C5-BOARD	
IC	
IC7501	B-1
IC7502	B-2
IC7503	B-2
IC7504	C-2
IC7505	B-2
IC7506	A-2
IC7507	B-2
IC7508	A-2
IC7509	E-2
IC7510	D-2
IC7511	D-2
IC7512	C-2
IC7513	D-2



C5-BOARD (FOIL SIDE)
TNPA3667


TNPA3667
① C5
SEE REVERSE FOR ORDER NO.
PbF
1 2 3
CRNO.7

C5-BOARD (COMPONENT SIDE)
TNPA3667


C50
C54
C55
C52
C5MM1
CB5
CB6
CB7
ZA502
ZA503
TNPA3667
① C5
ORDER NO.
PbF
CRNO.7
C5MM3
C5MM2
C53
C51

6

5

4

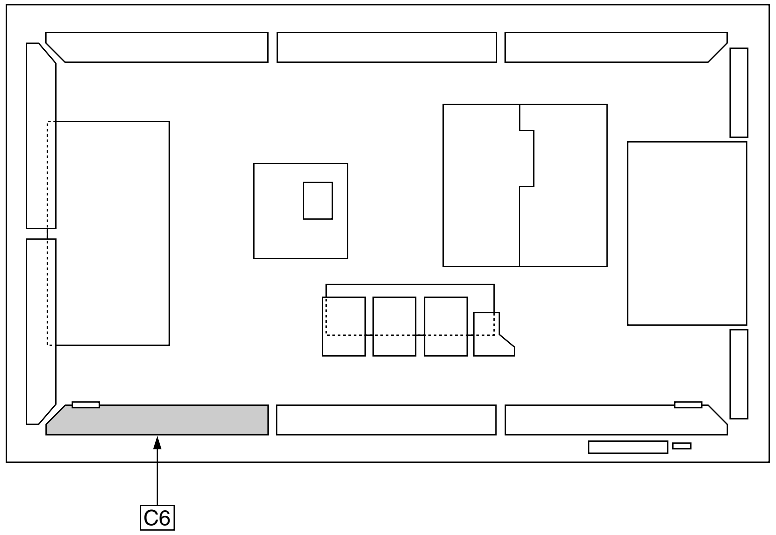
3

2

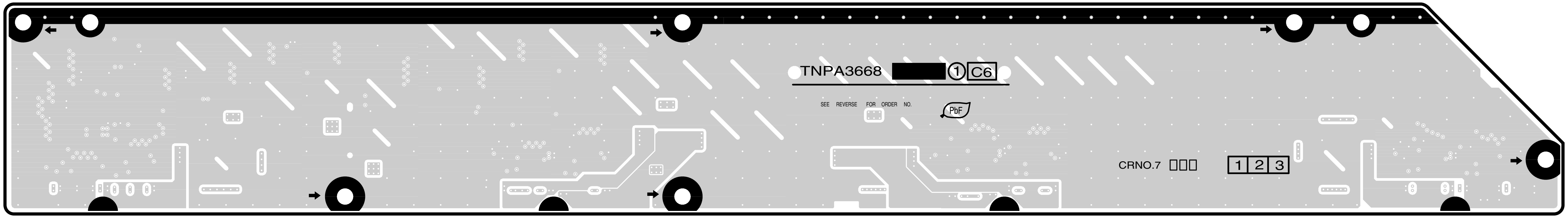
1

Parts Location

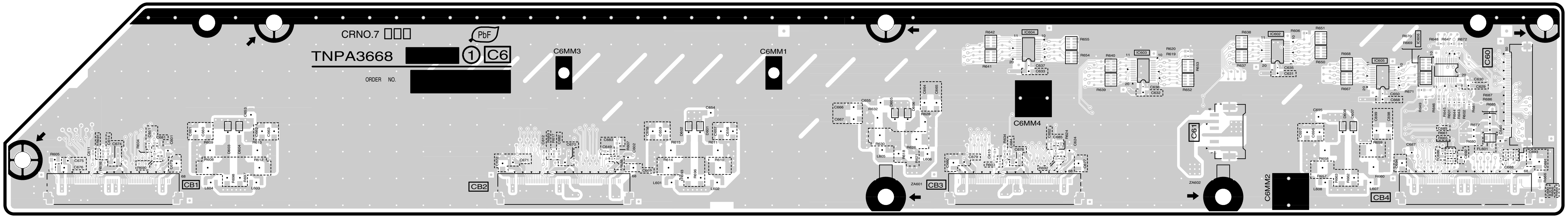
C6-BOARD	
IC	
IC7602	H-2
IC7603	G-2
IC7604	F-2
IC7605	H-2
IC7606	I-2



C6-BOARD (FOIL SIDE)
TNPA3668

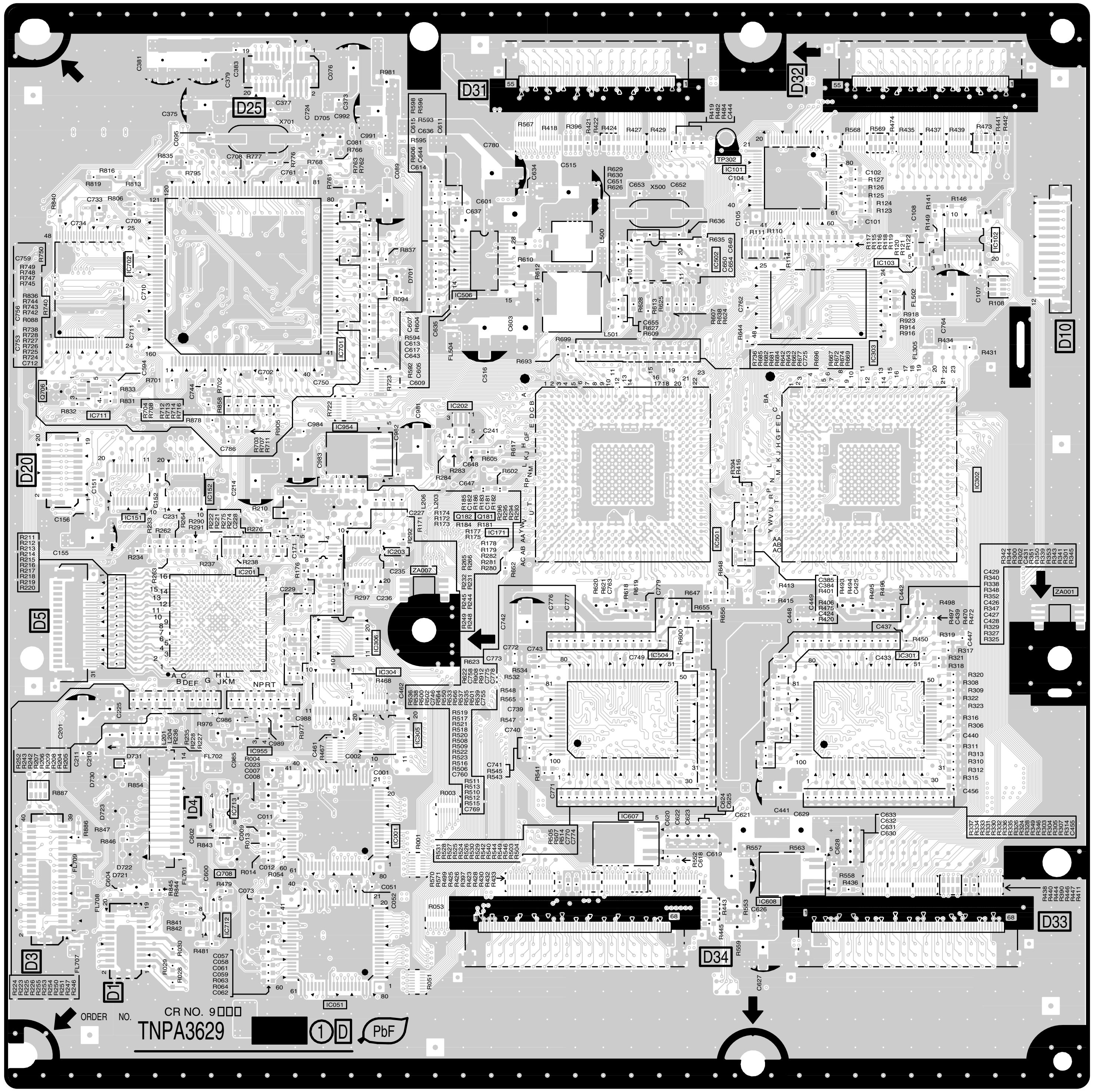

TNPA3668
①
C6
SEE REVERSE FOR ORDER NO.
PbF
CRNO.7
1
2
3

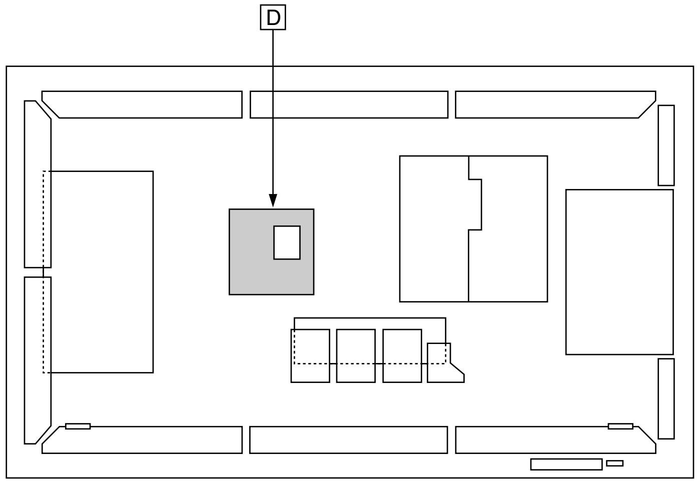
C6-BOARD (COMPONENT SIDE)
TNPA3668


CRNO.7
PbF
TNPA3668
①
C6
ORDER NO.
C6MM3
C6MM1
C6MM4
C6MM2
C61
C60
CB1
CB2
CB3
CB4
ZA601
ZA602

A B C D E F G H I

D-BOARD (COMPONENT SIDE)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)





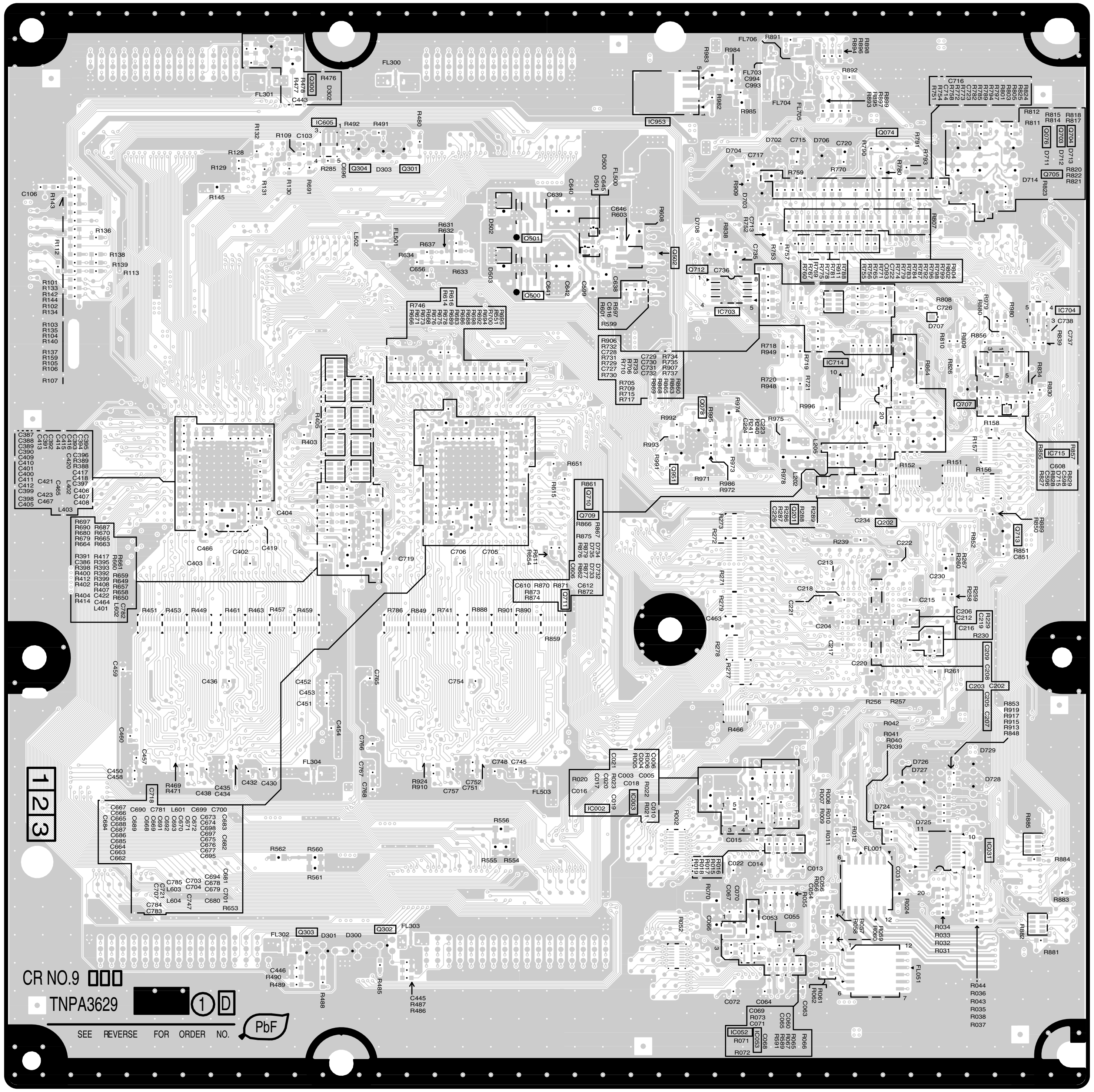
Parts Location

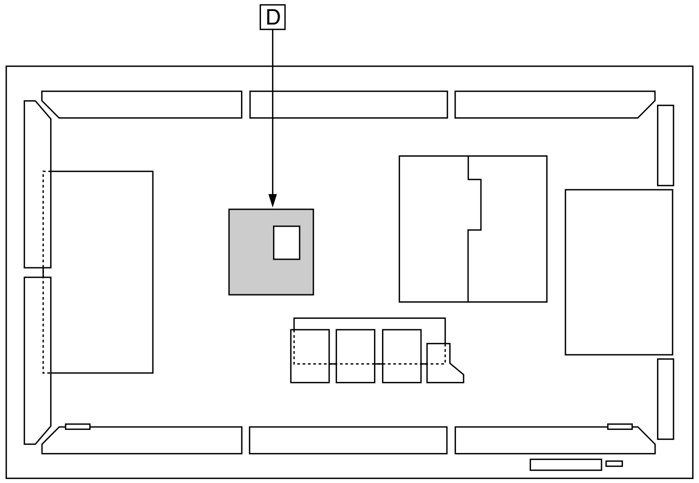
D-BOARD (COMPONENT SIDE)	
IC	
IC9001	D-2
IC9051	C-1
IC9101	E-5
IC9102	F-5
IC9103	F-5
IC9151	B-3
IC9152	C-4
IC9171	D-3
IC9201	C-3
IC9202	D-4
IC9203	D-3
IC9301	F-3
IC9302	F-4
IC9303	F-4
IC9304	C-3
IC9305	D-2
IC9306	C-3
IC9501	E-3
IC9502	E-5
IC9504	E-3
IC9506	D-4
IC9607	E-2
IC9608	E-2
IC9701	C-4
IC9702	B-5
IC9711	B-4
IC9712	C-2
IC9713	C-2
IC9954	C-4
IC9955	C-2
TRANSISTOR	
Q9181	D-3
Q9182	D-3
Q9706	B-4
Q9708	C-2
TP	
TP302	E-5

TH-65PHD8BK/EK
D-BOARD TZTNP01YUSE
TH-65PHD8UK
D-BOARD TZTNP020YUS

TH-65PHD8BK/EK
D-BOARD TZTNP01YUSE
TH-65PHD8UK
D-BOARD TZTNP020YUS

D-BOARD (FOIL SIDE)
TZTNP01YUSE (TH-65PHD8BK/EK)
TZTNP020YUS (TH-65PHD8UK)





Parts Location

D-BOARD (FOIL SIDE)

IC		TRANSISTOR	
IC9002	D-2	Q9074	F-5
IC9003	E-2	Q9076	F-5
IC9031	F-2	Q9078	E-4
IC9052	E-1	Q9201	E-3
IC9053	E-1	Q9202	F-3
IC9605	C-5	Q9300	C-5
IC9703	E-4	Q9301	D-5
IC9704	G-4	Q9302	C-2
IC9714	F-4	Q9303	C-2
IC9715	F-4	Q9304	C-5
IC9953	E-5	Q9500	D-4
		Q9501	D-5
		Q9502	E-5
		Q9703	G-5
		Q9704	G-5
		Q9705	F-5
		Q9707	F-4
		Q9709	D-3
		Q9710	D-4
		Q9711	D-3
		Q9712	E-5
		Q9713	F-3
		Q9951	E-4

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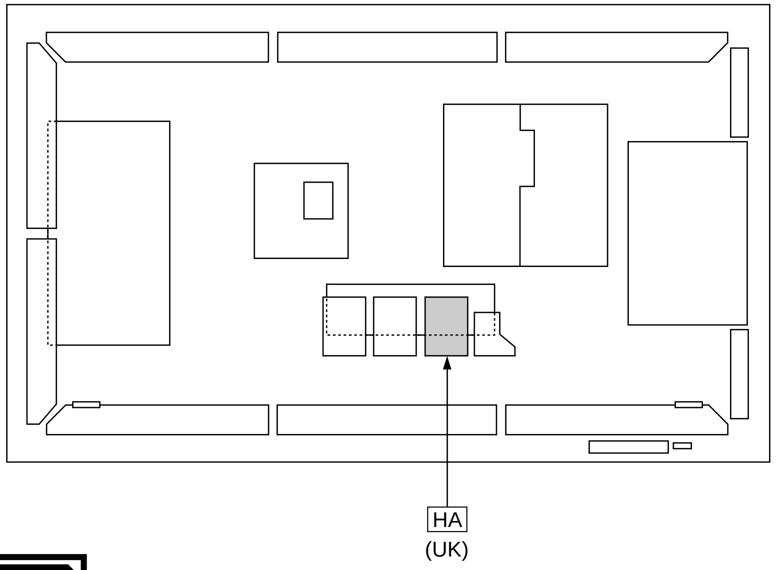
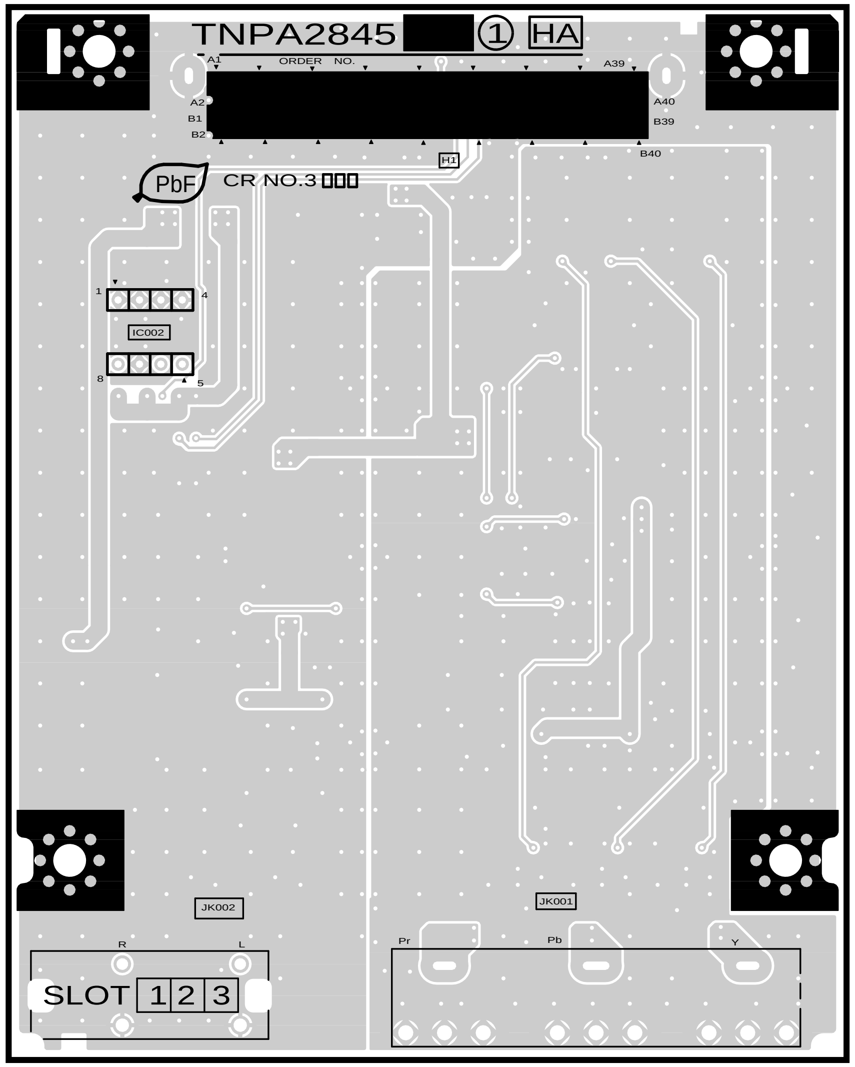
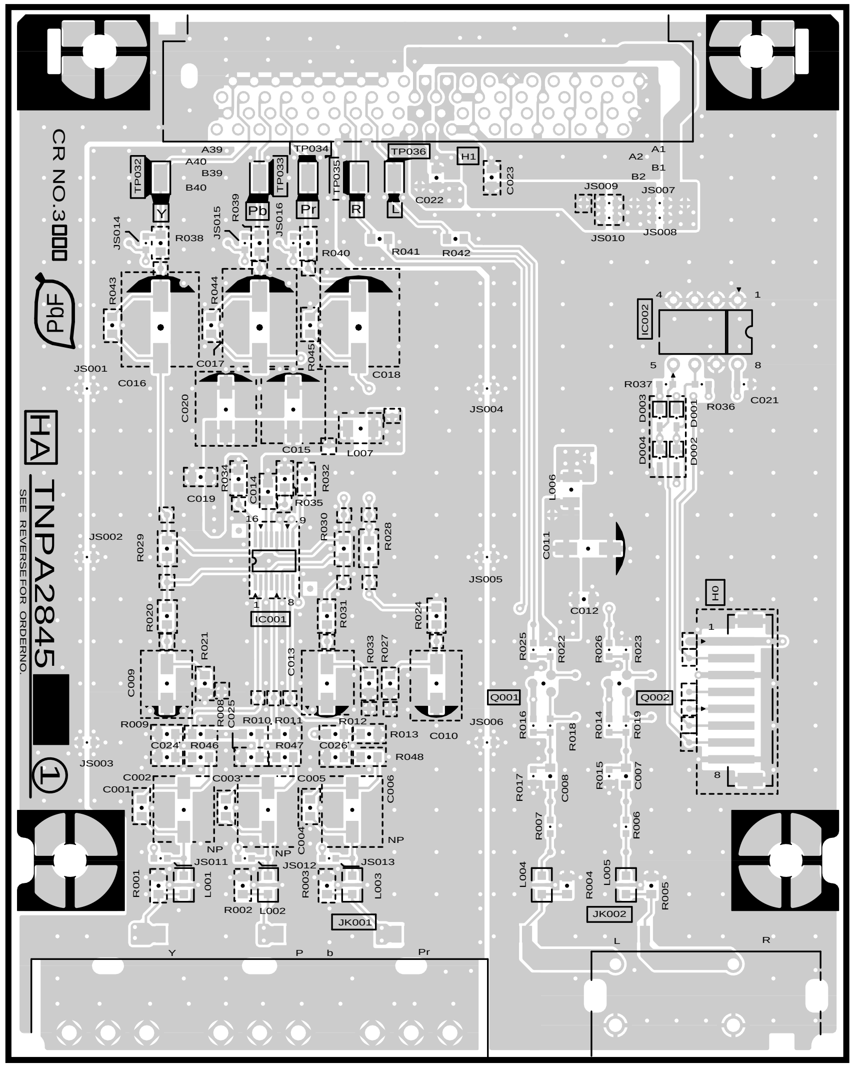
A B C D E F G H I



HA-BOARD(FOIL SIDE)
TXNHA10RBS


TNPA2845
①
HA
A1
ORDER NO.
A39
A2
B1
B2
A40
B39
B40
H1
PbF
CR NO.3
IC002
1
4
8
5
JK002
JK001
R
L
Pr
Pb
Y
SLOT
1
2
3

HA-BOARD(COMPONENT SIDE)
TXNHA10RBS


CR NO.3
PbF
HA
TNPA2845
SEE REVERSE FOR ORDER NO.
①
TP032
TP033
TP034
TP035
TP036
H1
Y
Pb
Pr
R
L
A39
A40
B39
B40
A1
A2
B1
B2
JS001
JS002
JS003
JS004
JS005
JS006
JS007
JS008
JS009
JS010
JS011
JS012
JS013
JS014
JS015
JS016
IC001
IC002
Q001
Q002
C016
C017
C018
C019
C020
C021
C022
C023
C024
C025
C026
C001
C002
C003
C004
C005
C006
C007
C008
C009
C010
C011
C012
C013
C014
C015
R038
R039
R040
R041
R042
R043
R044
R045
R001
R002
R003
R004
R005
R006
R007
R008
R009
R010
R011
R012
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R014
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R018
R019
R020
R021
R022
R023
R024
R025
R026
R027
R028
R029
R030
R031
R032
R033
R034
R035
R036
R037
R046
R047
R048
L001
L002
L003
L004
L005
L006
L007
D001
D002
D003
D004
H0
NP
JK001
JK002
Y
P
b
Pr
L
R

Parts Location

HA-BOARD			
IC		**TP**	
IC3001	E-3	TP3032	E-4
IC3002	F-4	TP3033	E-4
TRANSISTOR		TP3034	E-4
Q3001	F-2	TP3035	E-4
Q3002	F-2	TP3036	E-4

6
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A B C D E F G H I

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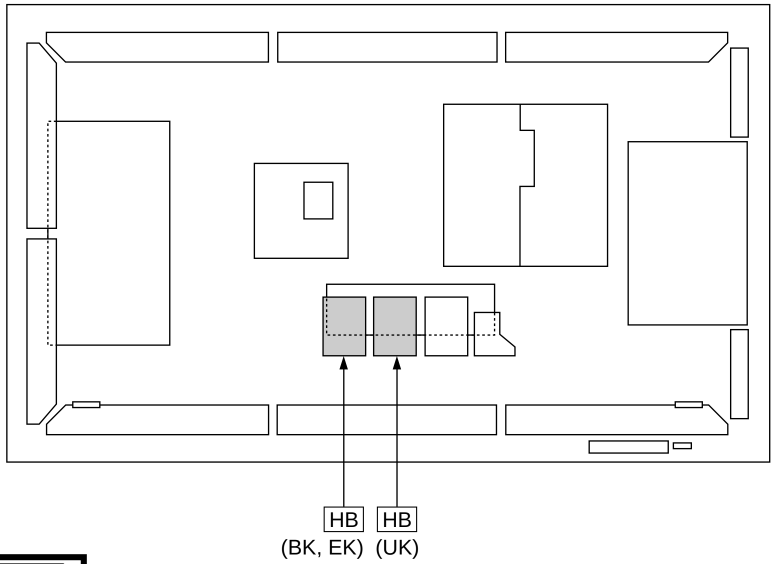
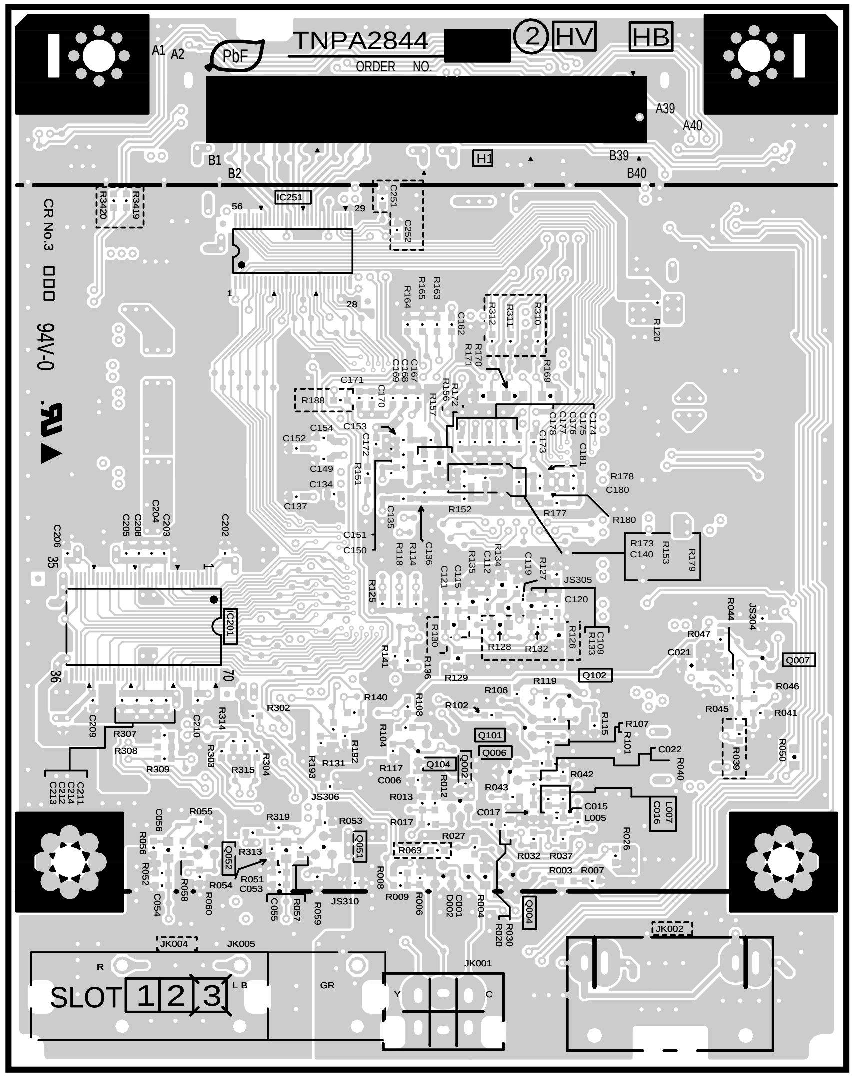


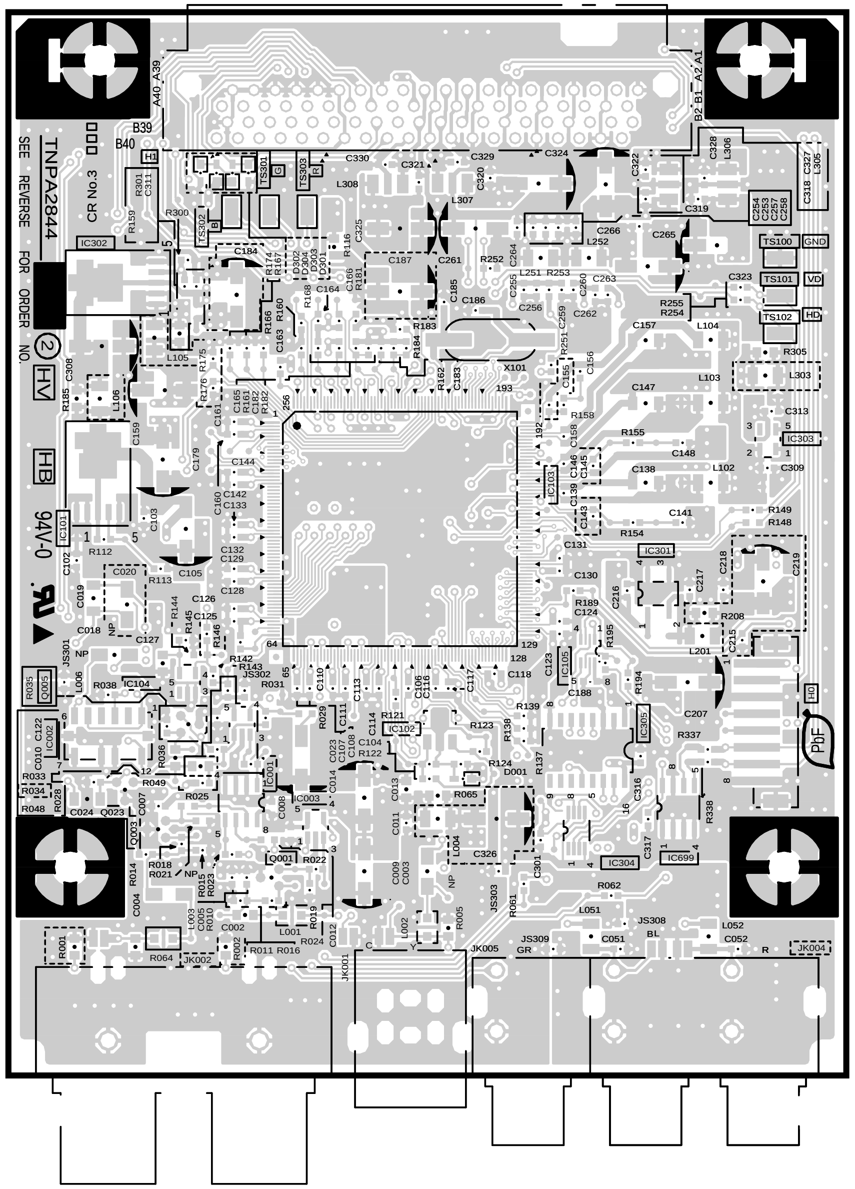
HB
(BK, EK)
HB
(UK)

HB-BOARD (FOIL SIDE)
TXNHB10QXS



TNPA2844
ORDER NO.
2
HV
HB
PbF
CR No.3
94V-0
IC251
IC201
SLOT 1 2 3
JK001
JK002
JK004
JK005

HB-BOARD(COMPONENT SIDE)
TXNHB10QXS



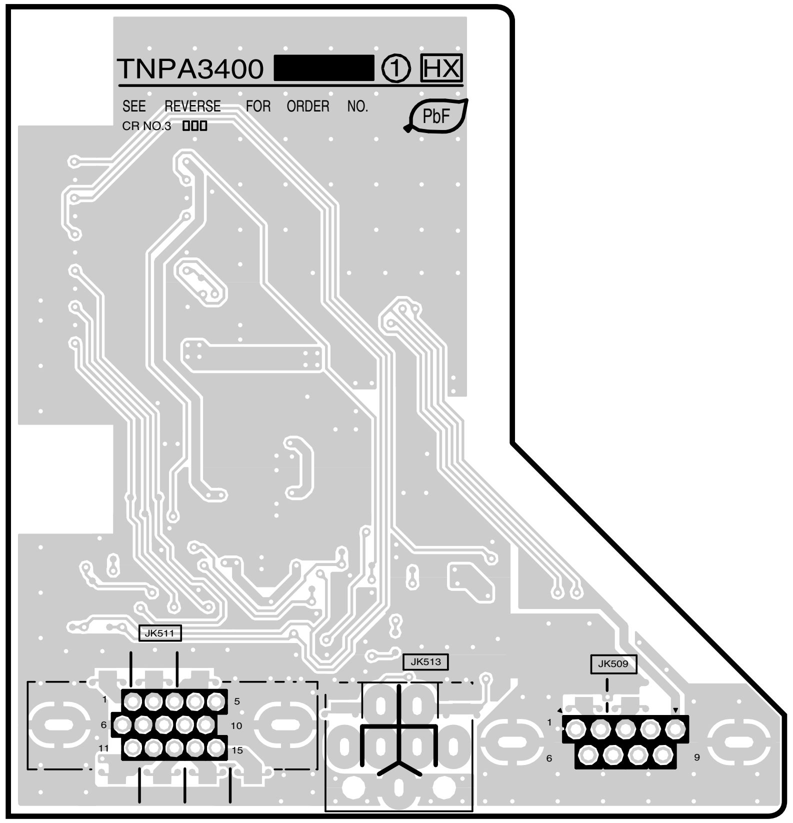
TNPA2844
SEE REVERSE FOR ORDER NO.
CR No.3
2
HV
HB
94V-0
PbF
IC302
IC101
IC301
IC303
TS100
TS101
TS102
GND
VD
HD
JK001
JK002
JK004
JK005

Parts Location

HB-BOARD			
IC		**TRANSISTOR**	
IC3001	E-2	Q3001	E-2
IC3002	D-2	Q3002	B-2
IC3003	E-2	Q3003	E-2
IC3101	D-3	Q3004	C-2
IC3102	E-2	Q3005	D-2
IC3103	F-3	Q3006	B-2
IC3104	E-2	Q3007	C-2
IC3105	F-2	Q3023	D-2
IC3201	B-3	Q3051	B-2
IC3251	B-4	Q3052	B-2
IC3301	F-3	Q3101	B-2
IC3302	D-4	Q3102	C-2
IC3303	G-3	Q3104	B-2
IC3304	F-2	**TP**	
IC3305	F-2	TS3100	G-4
IC3699	F-2	TS3101	G-4
		TS3102	G-4
		TS3301	E-4
		TS3302	E-4
		TS3303	E-4

A B C D E F G H I

HX-BOARD(FOIL SIDE)
TZTNP040VAS


TNPA3400
①
HX
SEE REVERSE FOR ORDER NO.
CR NO.3
PbF
JK511
JK513
JK509
1
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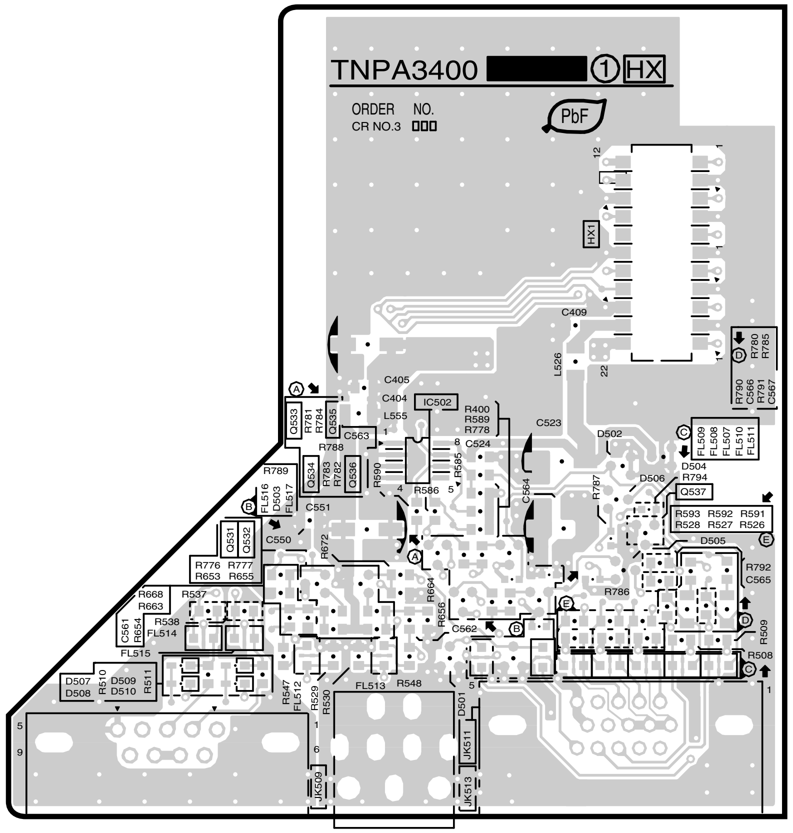
6
10
11
15
1
6
9

HX-BOARD(COMPONENT SIDE)
TZTNP040VAS


TNPA3400
①
HX
ORDER NO.
CR NO.3
PbF
HX1
12
22
C409
L526
C405
C404
L555
IC502
R400
R589
R778
C524
C523
D502
R780
R785
R790
C566
R791
C567
Q533
R781
R784
Q535
C563
R788
Q534
R783
R782
Q536
R590
R586
R585
C564
R787
D506
R794
FL509
FL508
FL507
FL510
FL511
D504
Q537
R789
FL516
D503
FL517
C551
C550
Q531
Q532
R672
R776
R777
R653
R655
R593
R592
R591
R528
R527
R526
D505
R792
C565
R668
R663
R537
C561
R654
R538
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FL515
R664
R656
C562
R786
R509
R508
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D508
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R547
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1
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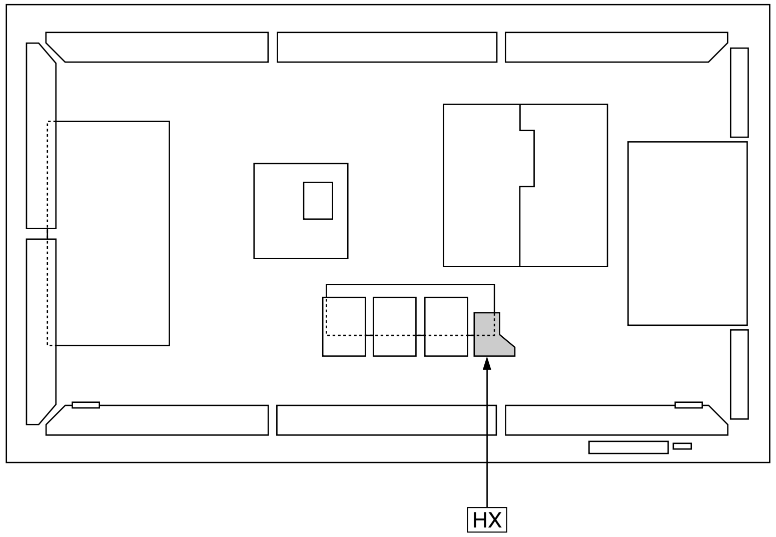


Parts Location

HX-BOARD			
IC		**TRANSISTOR**	
IC3502	E-4	Q3531 Q3532 Q3533 Q3534 Q3535 Q3536 Q3537	D-3 D-3 E-3 E-3 E-3 E-3 F-3

Parts Location

J-BOARD (COMPONENT SIDE)

IC

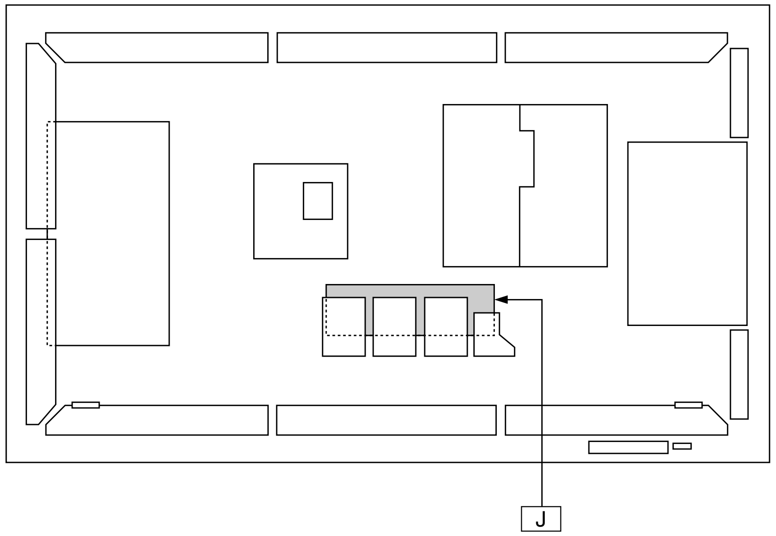
IC801	G-2
IC802	E-2
IC803	E-2
IC804	G-3
IC2301	I-4
IC2302	H-3
IC2303	F-2
IC2305	H-4
IC3001	E-3
IC3002	D-3
IC3003	D-2
IC3004	D-2
IC3005	C-3
IC3006	D-2
IC3007	D-3
IC3008	G-3
IC3101	B-3
IC3102	B-3
IC3150	C-4
IC8001	C-2
IC8002	B-2
IC8003	B-2
IC8004	A-2
IC8005	A-2
IC8007	B-3
IC8008	B-2
IC8009	B-3
IC8014	G-2
IC8016	E-2
IC8020	B-2
IC8021	A-2
IC8100	F-2
IC8181	F-2

TRANSISTOR

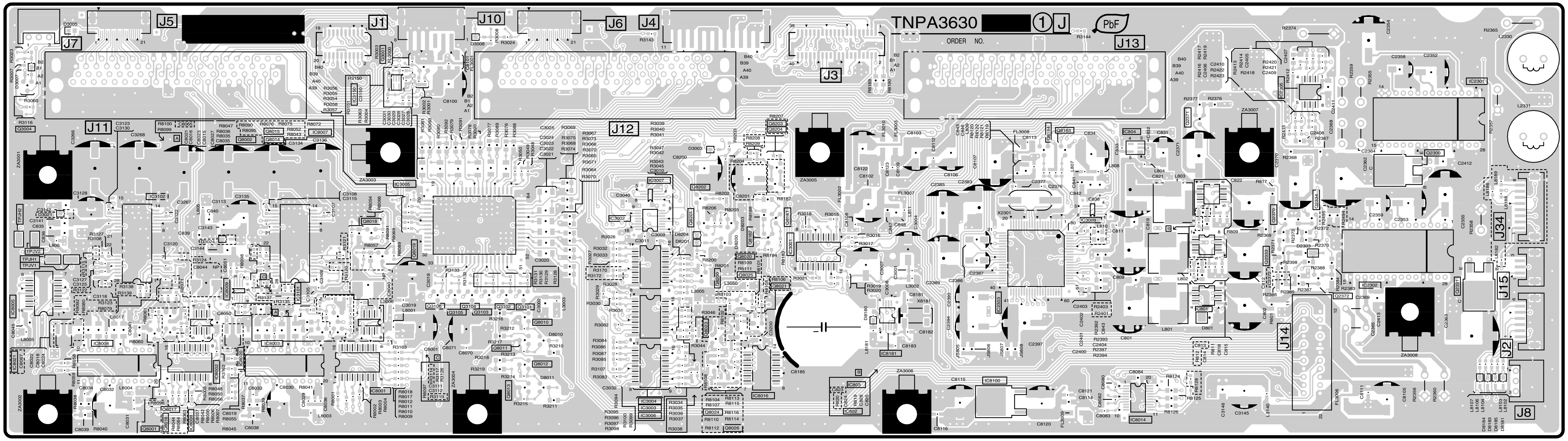
Q2300	H-3
Q2331	I-2
Q2333	H-3
Q2334	H-3
Q2370	H-3
Q2371	G-2
Q2372	H-2
Q3001	C-4
Q3004	A-3
Q3101	D-2
Q3102	C-2
Q3103	C-2
Q3104	C-2
Q3105	C-2
Q3106	C-2
Q8001	B-2
Q8002	B-3
Q8010	D-2
Q8011	C-2
Q8012	D-2
Q8013	C-2
Q8014	B-3
Q8015	B-3
Q8016	B-2
Q8017	B-2
Q8018	C-3
Q8019	C-3
Q8020	E-3
Q8021	E-3
Q8023	E-2
Q8024	E-2
Q8025	E-3
Q8026	E-2
Q8181	E-2
Q8182	E-3
Q8183	F-3
Q8184	F-3
Q8200	E-3
Q8201	D-3
Q8202	E-3
Q8203	E-3
Q8204	E-3

TP

TPJH1	A-3
TPJH2	A-3
TPJV1	A-3
TPJV2	A-3



J-BOARD (COMPONENT SIDE)
TNPA3630AD (TH-65PHD8BK/EK)
TNPA3630AC (TH-65PHD8UK)


TNPA3630
J
ORDER NO.
PbF
J1
J2
J3
J4
J5
J6
J7
J8
J10
J11
J12
J13
J14
J15
J34
IC3001
IC8003
IC8100
IC2301
ZA3001
ZA3002
ZA3003
ZA3004
ZA3005
ZA3006
ZA3007
ZA3008
X2301
TPJH1
TPJH2
TPJV1
TPJV2

TH-65PHD8BK/EK
J-BOARD TNPA3630AD

TH-65PHD8UK
J-BOARD TNPA3630AC

TH-65PHD8BK/EK
J-BOARD TNPA3630AD

TH-65PHD8UK
J-BOARD TNPA3630AC

6
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A B C D E F G H I

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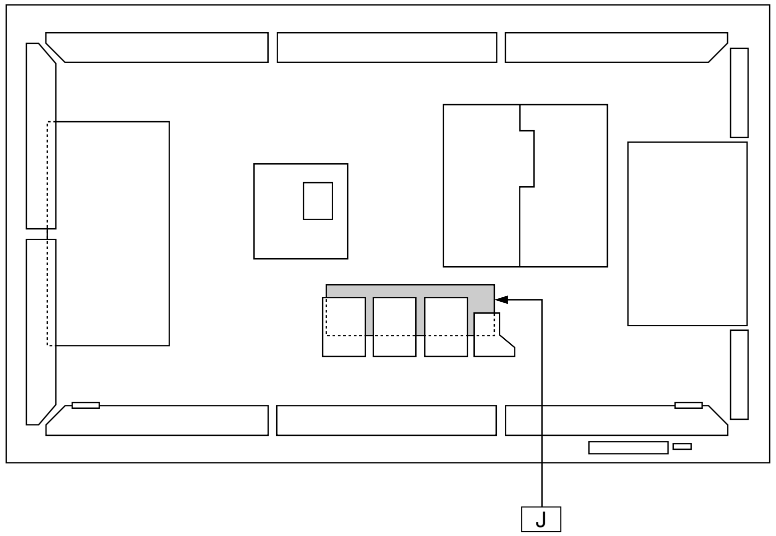
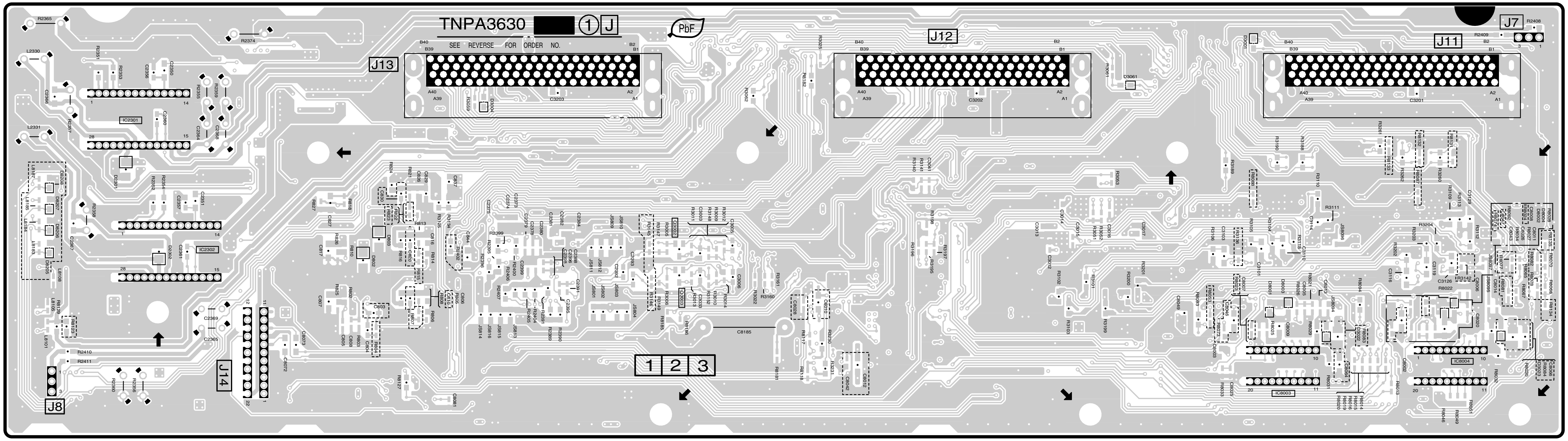
Parts Location

J-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC2301	A-3	Q3002	D-3
IC2302	B-3	Q3003	D-2
IC8003	H-2		
IC8004	I-2		

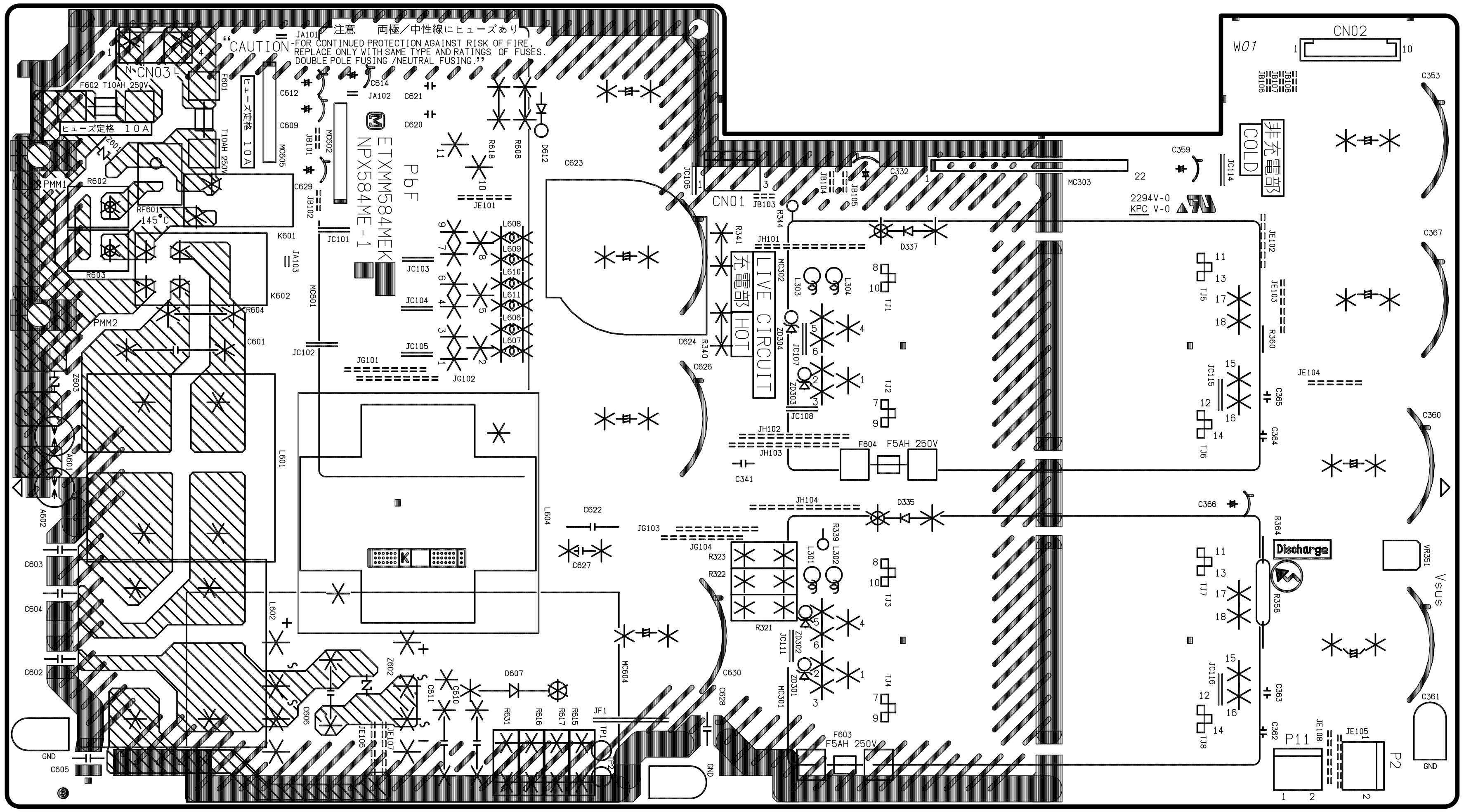


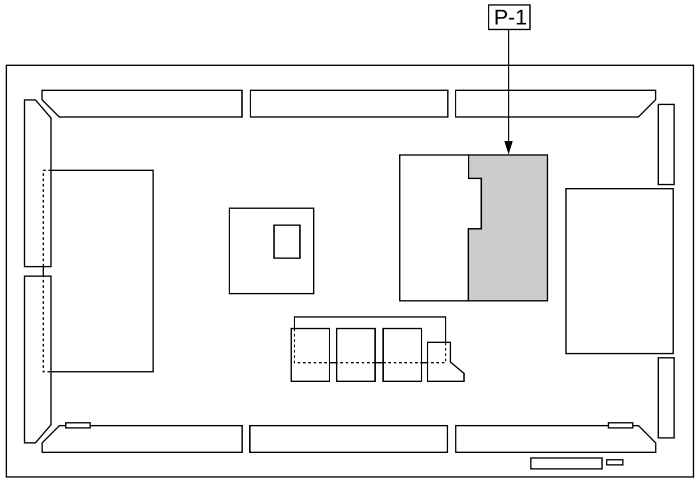
J-BOARD (FOIL SIDE)
TNPA3630AD (TH-65PHD8BK/EK)
TNPA3630AC (TH-65PHD8UK)


TNPA3630
①
J
SEE REVERSE FOR ORDER NO.
PbF
J13
J12
J11
J7
J8
J14
IC2301
IC2302
IC8003
IC8004
1 2 3
C8185

A B C D E F G H I

P(P-1)-BOARD (COMPONENT SIDE)
ETXMM584MEK (NPX584ME-1)


CN03
CN01
CN02
W01
"CAUTION-FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSES. DOUBLE POLE FUSING /NEUTRAL FUSING."
注意　両極／中性線にヒューズあり
ETXMM584MEK
NPX584ME-1
PbF
F602 T10AH 250V
ヒューズ定格 10A
F601 T10AH 250V
RF601 145°C
PMM1
PMM2
R602
R603
R604
K601
K602
C601
C602
C603
C604
C605
C606
C609
C610
C611
C612
C614
C620
C621
C622
C623
C624
C626
C627
C628
C629
C630
L601
L602
L604
L608
L609
L610
L611
L606
L607
D607
D612
R608
R618
R615
R616
R617
R631
JA101
JA102
JA103
JB101
JB102
JB103
JB104
JB105
JB106
JC101
JC102
JC103
JC104
JC105
JC106
JC107
JC108
JC111
JC114
JC115
JC116
JE101
JE102
JE103
JE104
JE105
JE106
JE107
JE108
JG101
JG102
JG103
JG104
JH101
JH102
JH103
JH104
JF1
TP1
TP2
MC301
MC302
MC303
MC601
MC602
MC604
MC605
LIVE CIRCUIT
充電部
HOT
非充電部
COLD
C332
C341
C353
C359
C360
C361
C362
C363
C364
C365
C366
C367
D335
D337
F603 F5AH 250V
F604 F5AH 250V
L301
L302
L303
L304
R321
R322
R323
R339
R340
R341
R344
R354
R358
R360
TJ1
TJ2
TJ3
TJ4
TJ5
TJ6
TJ7
TJ8
ZD301
ZD302
ZD303
ZD304
ZD601
ZD602
ZD603
2294V-0
KPC V-0
Discharge
VR351
Vsus
P11
P2
GND
22



Parts Location

P-BOARD (COMPONENT SIDE)			
IC		TP	
MC301	D-2	TP1	C-2
MC302	D-4	TP2	C-2
MC303	E-4		
MC601	B-4		
MC602	B-4		
MC604	C-2		
MC605	B-4		

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A B C D E F G H I

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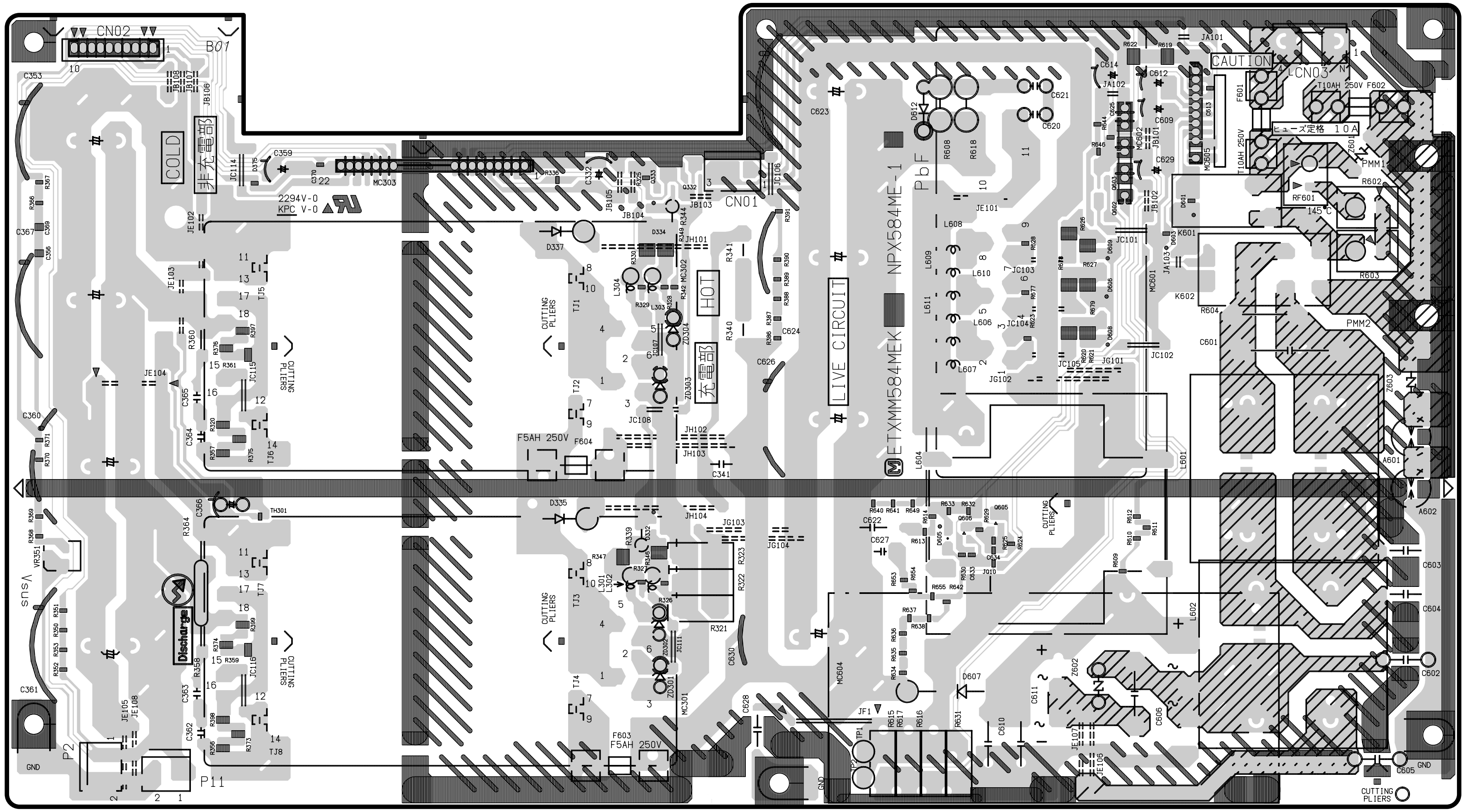
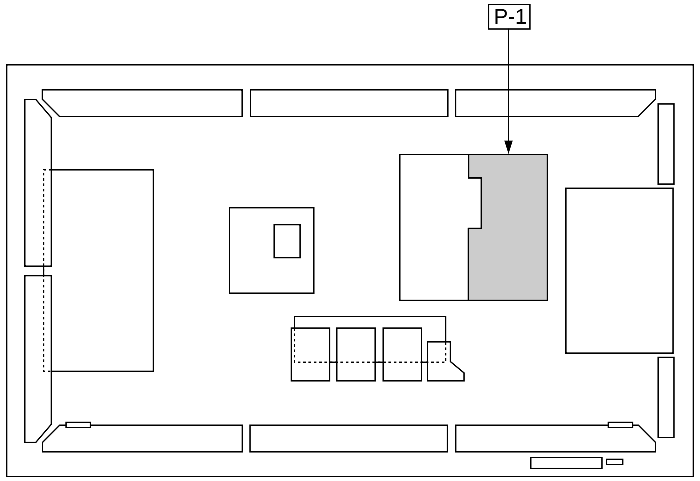
P(P-1)-BOARD (FOIL SIDE)
ETXMM584MEK (NPX584ME-1)


CN02
B01
COLD
非充電部
2294V-0
KPC V-0
MC303
CN01
HOT
充電部
LIVE CIRCUIT
ETXMM584MEK NPX584ME-1
PbF
CAUTION
CN03
T10AH 250V
F601
F602
ヒューズ定格 10A
RF601
145°C
PMM1
PMM2
F5AH 250V
F604
F603
CUTTING PLIERS
Discharge
Vsus
GND
P2
P11
TP1
TP2



Parts Location

P-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
MC301	D-2	Q332	D-4
MC302	D-4	Q333	C-4
MC303	B-4	Q602	E-4
MC601	E-4	Q603	E-4
MC602	E-4	Q605	E-3
MC604	D-2	Q606	E-3
MC605	F-4	**TP**	
		TP1	D-2
		TP2	D-2

A B C D E F G H I

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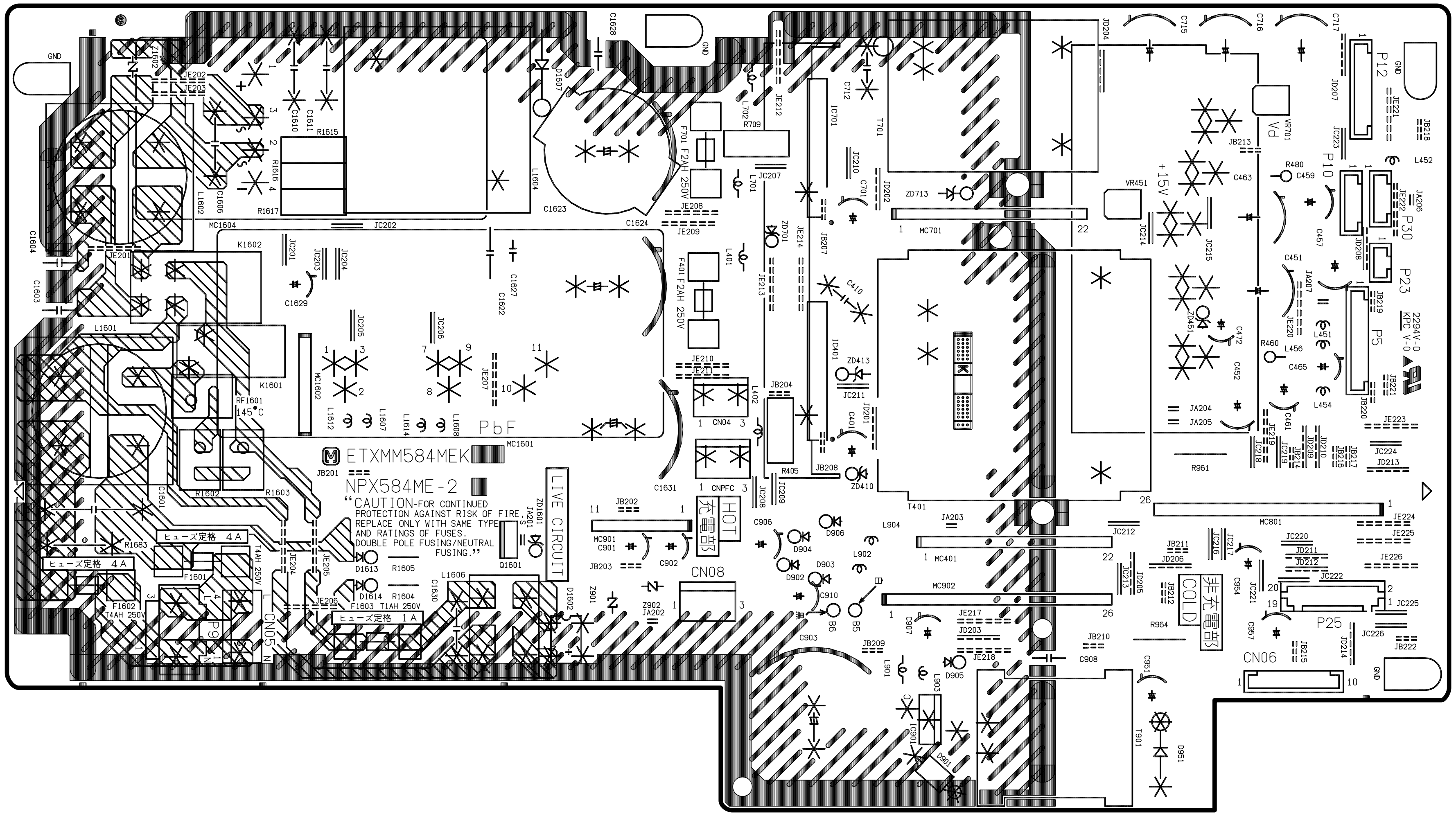
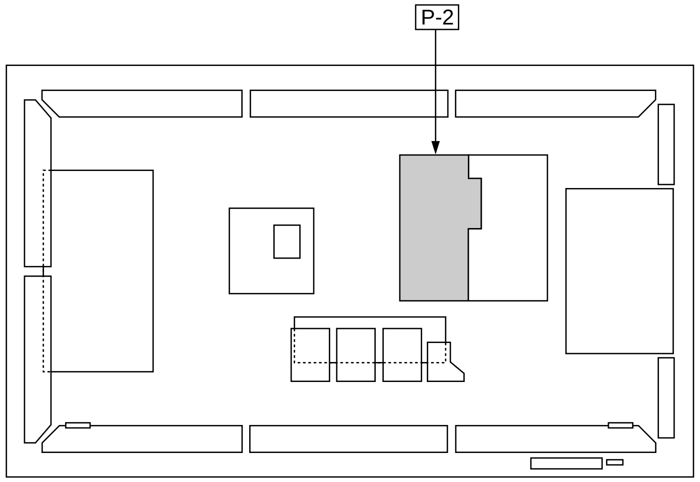
P(P-2)-BOARD (COMPONENT SIDE)
ETXMM584MEK (NPX584ME-2)


GND
ETXMM584MEK
NPX584ME-2
"CAUTION-FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS OF FUSES. DOUBLE POLE FUSING/NEUTRAL FUSING."
LIVE CIRCUIT
HOT
COLD
PbF
F701 F2AH 250V
F401 F2AH 250V
F1601
F1602 T4AH 250V
F1603 T1AH 250V
ヒューズ定格 4A
ヒューズ定格 1A
CN08
CN06
CN05
CN04
CNPFC
P12
P10
P30
P23
P5
P25
P9
T401
T701
T901
MC701
MC401
MC801
MC902
MC901
MC1601
MC1602
MC1604
IC401
IC701
Q1601
K1601
K1602
RF1601
145°C
VR701
Vd
+15V
VR451
2294V-0
KPC V-0

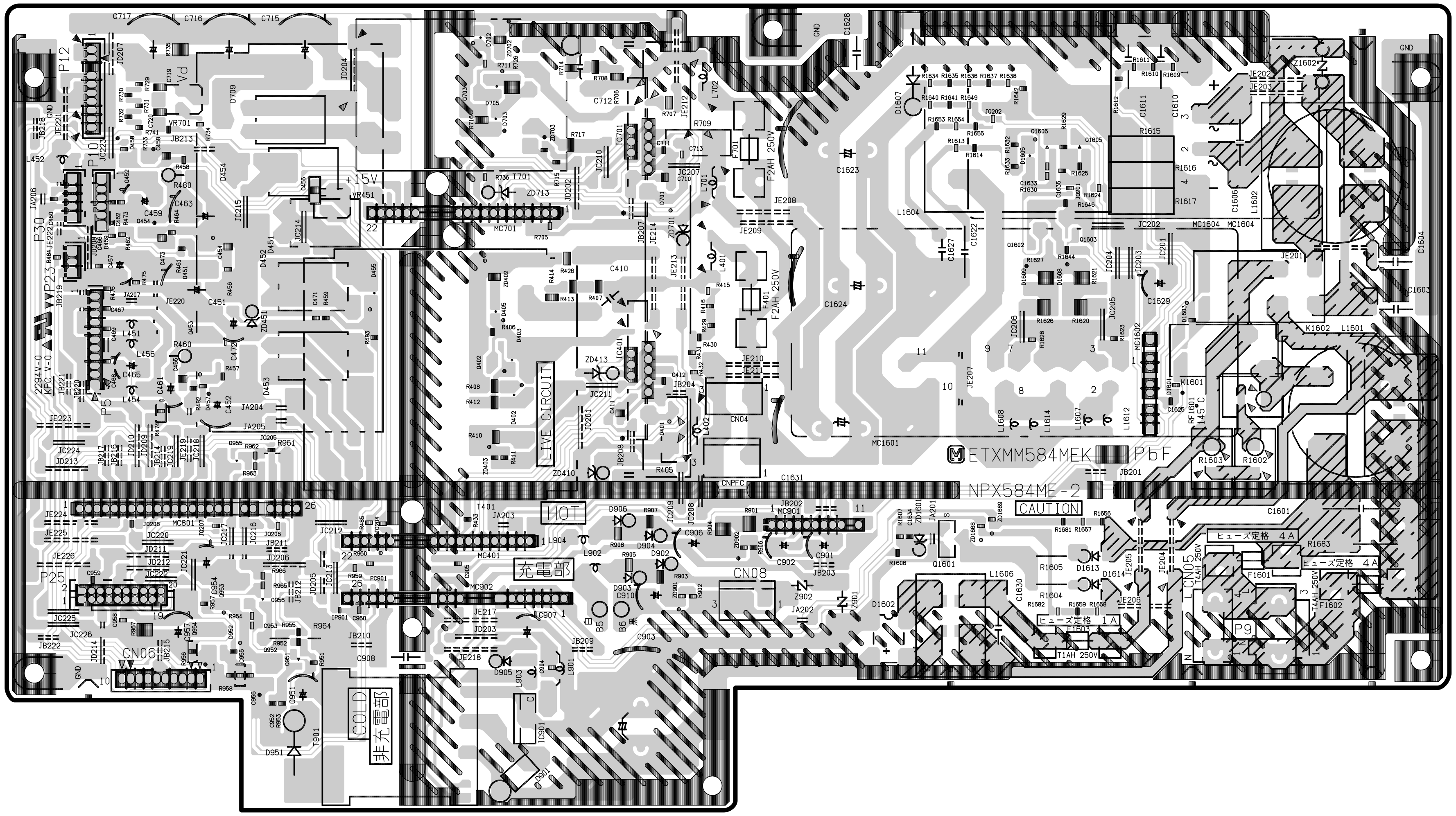


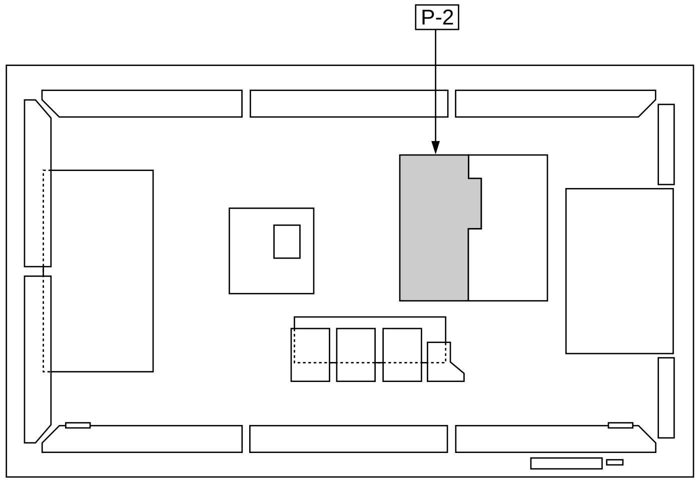
Parts Location

P-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC401	D-4	Q1601	C-3
IC701	D-4		
IC901	E-2		
MC401	E-3		
MC701	E-4		
MC801	F-3		
MC901	C-3		
MC902	E-3		
MC1601	C-3		
MC1602	B-3		
MC1604	B-4		

A B C D E F G H I

P(P-2)-BOARD (FOIL SIDE)
ETXMM584MEK (NPX584ME-2)


P12
P10
P30
P23
P25
P5
CN06
CN04
CN08
CN05
P9
LIVE CIRCUIT
HOT
COLD
充電部
非充電部
CAUTION
ETXMM584MEK PbF
NPX584ME-2
GND
+15V
Vd
ヒューズ定格 4A
ヒューズ定格 1A
T1AH 250V
T4AH 250V
F2AH 250V



Parts Location

P-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC401	C-4	Q402	C-3
IC701	C-4	Q451	B-4
IC901	C-2	Q452	A-4
MC401	C-3	Q453	B-4
MC701	C-4	Q454	A-4
MC801	B-3	Q703	C-5
MC901	D-3	Q951	B-2
MC902	C-3	Q952	B-2
MC1601	D-3	Q953	B-3
MC1602	E-4	Q954	B-2
MC1604	F-4	Q955	B-3
		Q956	B-3
		Q1601	E-3
		Q1602	E-4
		Q1603	E-4
		Q1605	E-4
		Q1606	E-4

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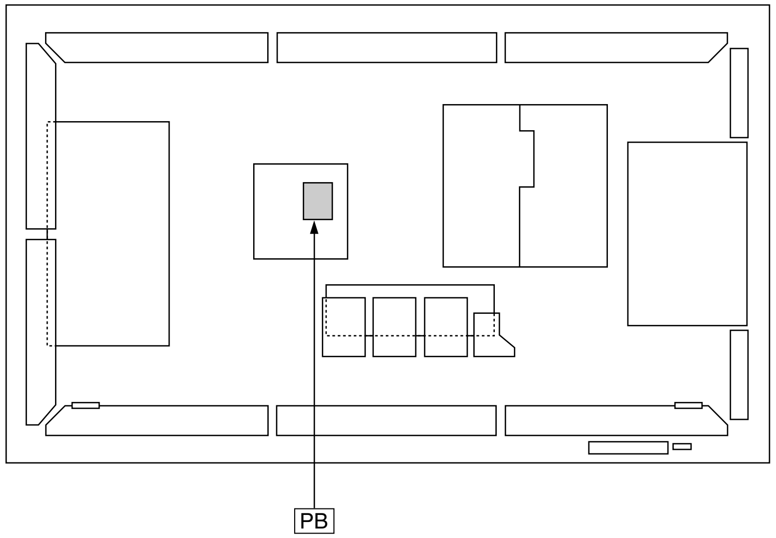
A B C D E F G H I

Parts Location

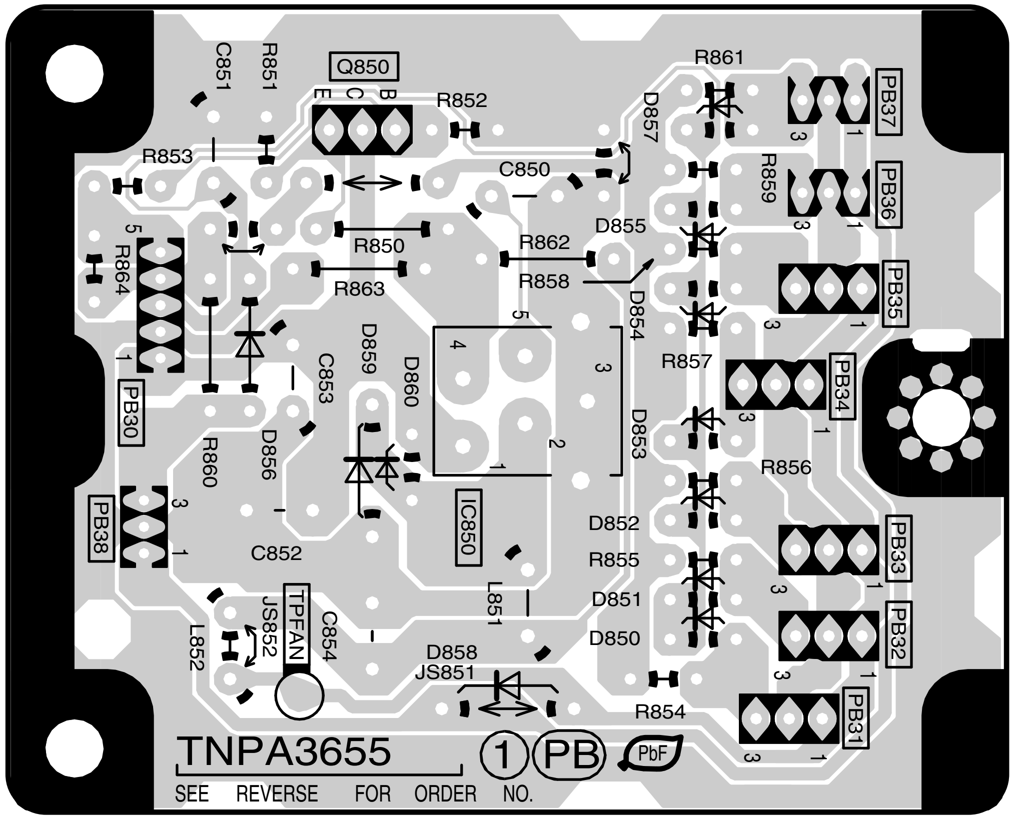
PB-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC850	C-2	Q850	B-3
		TP	
		TPFAN	B-2

Parts Location

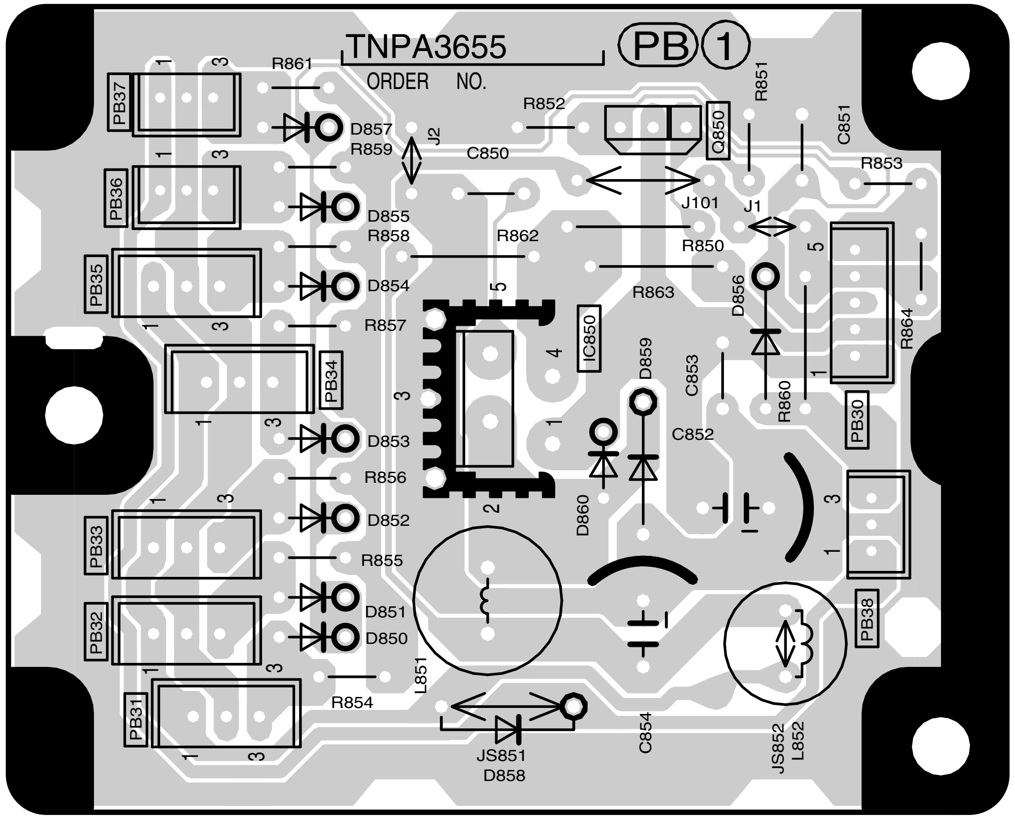
PB-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC850	G-3	Q850	G-3



PB-BOARD (FOIL SIDE)
TNPA3655AB


C851
R851
Q850
E C B
R852
D857
R861
PB37
R853
C850
R859
PB36
R864
R850
D855
R862
R858
R863
D854
PB35
D859
D860
C853
R857
PB34
PB30
R860
D856
D853
R856
PB38
IC850
C852
D852
R855
PB33
L851
D851
D850
L852
JS852
TPFAN
C854
D858
JS851
R854
PB32
PB31
TNPA3655
① PB
PbF
SEE REVERSE FOR ORDER NO.

PB-BOARD (COMPONENT SIDE)
TNPA3655AB


TNPA3655
ORDER NO.
PB ①
R861
PB37
D857
R859
J2
C850
R852
Q850
R851
C851
PB36
D855
R858
R862
J101
J1
R853
R850
PB35
D854
R863
D856
R864
R857
IC850
D859
C853
PB34
R860
PB30
D853
C852
R856
D860
PB33
D852
R855
PB32
D851
D850
L851
PB31
R854
JS851
D858
C854
JS852
L852
PB38

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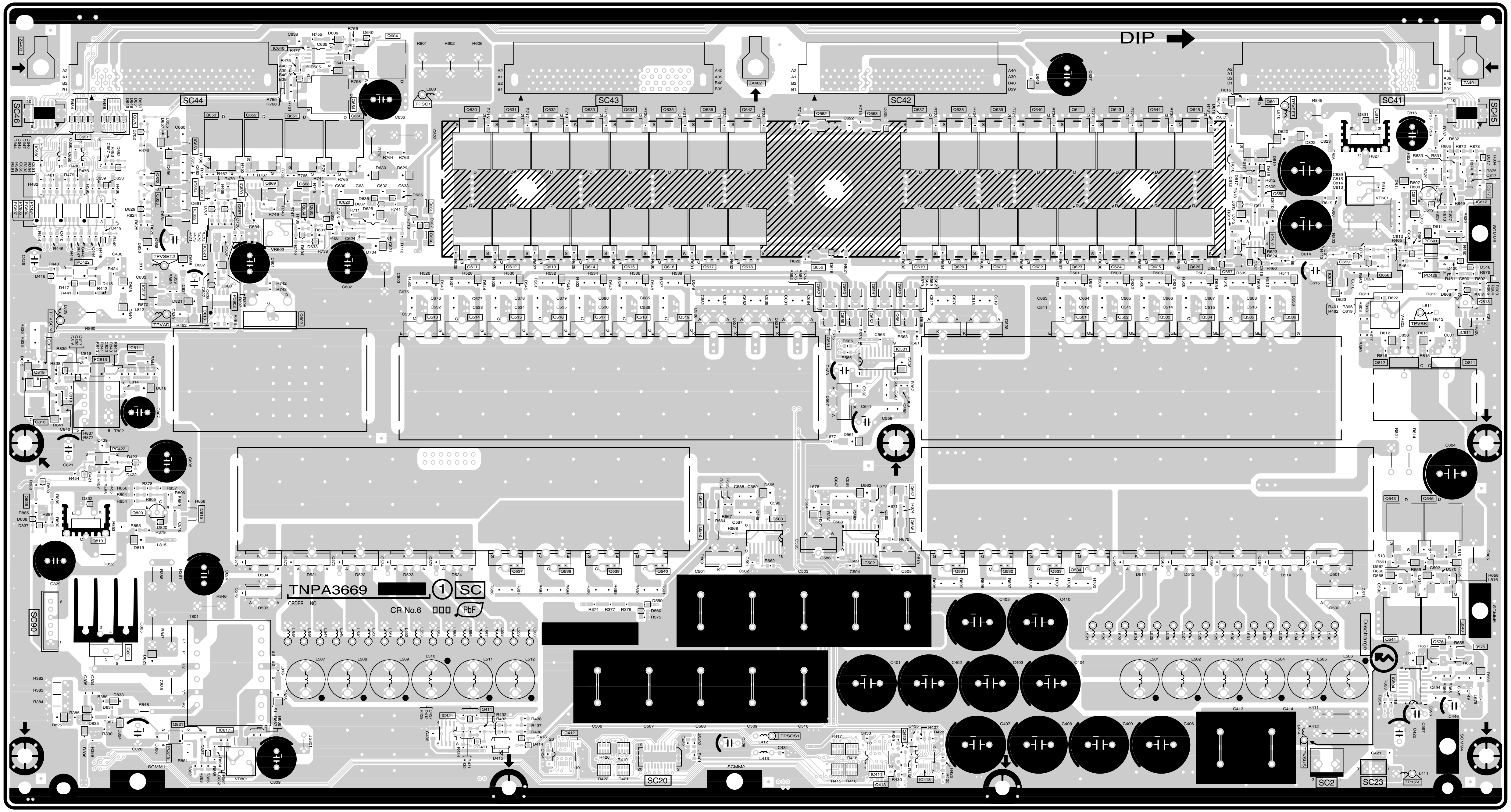
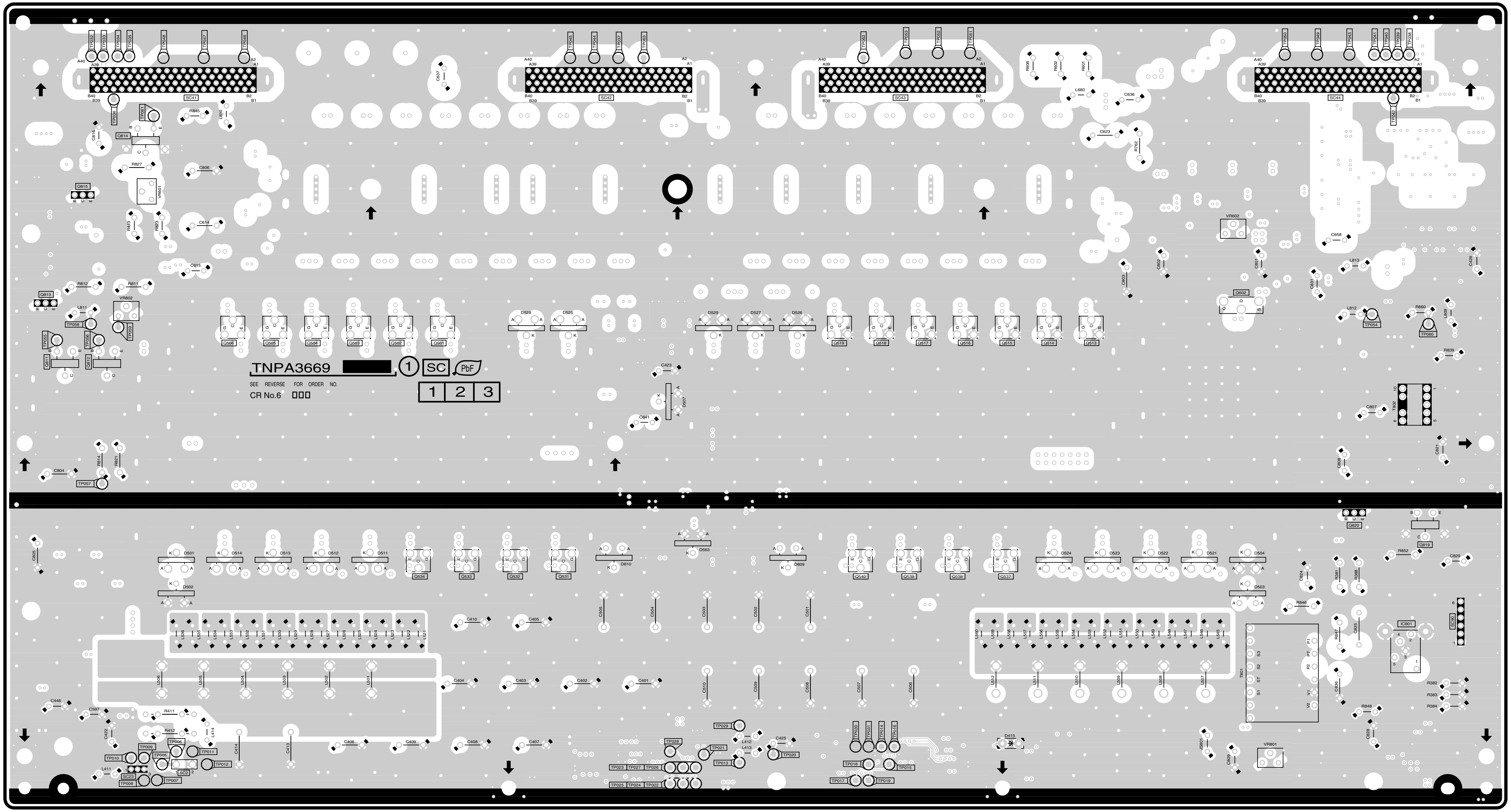
SC-BOARD (COMPONENT SIDE)
TNPA3669


DIP
SC44
SC43
SC42
SC41
SC46
SC45
SC90
SC20
SC2
SC23
SCMM1
SCMM2
TNPA3669
ORDER NO.
CR No.6
SC
PbF
Discharge

A B C D E F G H I

SC-BOARD (FOIL SIDE)
TNPA3669


TNPA3669
SC
PbF
SEE REVERSE FOR ORDER NO.
CR No.6
1 2 3
SC41
SC42
SC43
SC44